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LAKE ERIE OHIO, PENNSYLVANIA, NEW YORK INTAKE WATER QUALITY SUMMARY 1970

Ohio Department of Health

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August 1971

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LAKE ERIE
OHIO, PENNSYLVANIA, NEW YORK INTAKE WATER QUALITY SUMMARY
1970

ENVIRONMENTAL PROTECTION AGENCY
REGION V

OHIO DEPARTMENT OF HEALTH

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES

AUGUST 1971

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INTRODUCTION

The following is a summary of progress to date on the cooperative water quality surveillance program between the Ohio Department of Health, New York State Department of Environmental Conservation, Pennsylvania Department of Environmental Resources, municipalities, and the Environmental Protection Agency at 22 water treatment intakes in Lake Erie (see Fig. 1).

The previous summaries (1968, 1969) included water quality surveillance data on Ohio intakes only.

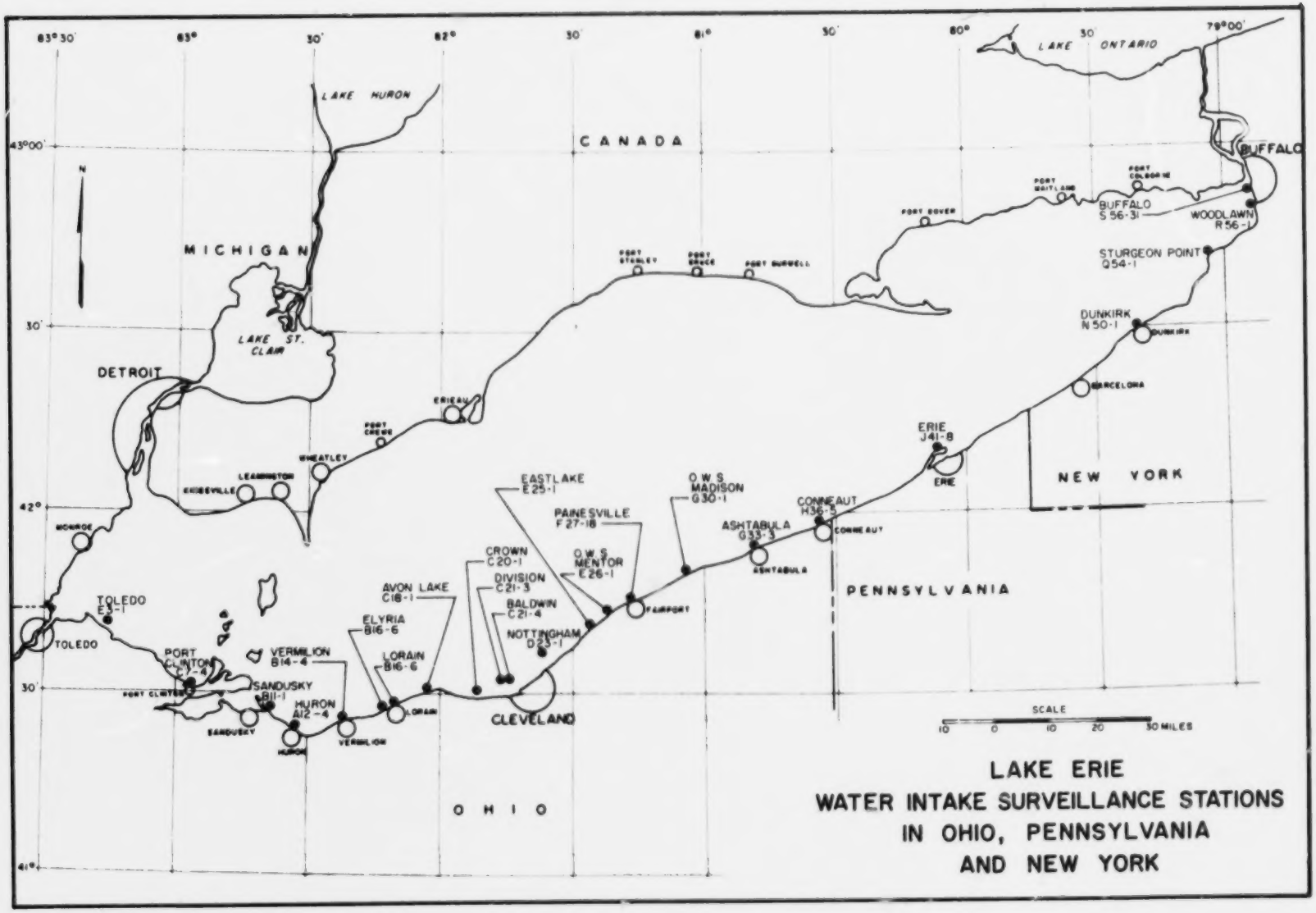
The EPA is also monitoring one industrial water intake at the Cleveland Electric Illuminating Company's Eastlake plant.

This continuing program is a part of the overall system of monitoring interstate waters by the participating State and municipal agencies for water quality standards compliance. In addition it supplements Federal efforts in the surveillance of Lake Erie waters as instructed by the Lake Erie Enforcement Conference. Finally, an expansion of the normal municipal monitoring of raw and finished water for treatment requirement and quality control purposes substantially aids in the successful production of a more palatable product especially during periods of algae-caused consumer distress.

All water quality information is being entered into the STORET data processing system as used by the Environmental Protection Agency and State and municipal agencies participating in this surveillance program.

Program and Methods

The program was initiated in March 1968 by the Ohio Department of Health and the EPA with municipal participation beginning in July 1968.



LAKE ERIE
WATER INTAKE SURVEILLANCE STATIONS
IN OHIO, PENNSYLVANIA
AND NEW YORK

Since that time however, the program was expanded to include Lake Erie water plant intakes in Pennsylvania and New York.

As part of the cooperative effort the Ohio Department of Health and the Pennsylvania Department of Environmental Resources are making bimonthly determinations for toxic materials. These include zinc, silver, copper, chromium, nickel, cadmium, barium, lead, arsenic, selenium, and cyanide. In addition, the agencies are inspecting and guiding municipal laboratories to insure that standard procedures for water analysis are being employed.

The municipalities, which normally are concerned with only a few water quality parameters in producing a potable and palatable water, have comprehensively increased their analytical characterizations to include continuous temperature recording, pH, conductivity, total dissolved (filterable) solids, turbidity, total iron, total manganese, chloride, sulfates, total bacteria, total and fecal coliforms, alkalinity, hardness, and chlorine demand. In addition to the above parameters, analytical characterizations on Buffalo's intake water include color, total solids, biochemical oxygen demand, chemical oxygen demand, total phosphorus, fluoride, and methylene blue active substance (anionic detergents) determinations.

The EPA is making all sample collections for both the State and Federal aspects of the program. In addition, the EPA is making the following biweekly determinations: DO, turbidity, total solids, total dissolved (filterable) solids, total suspended (nonfilterable) solids, dissolved silica (SiO_2), total phosphorus, soluble phosphorus, organic nitrogen, ammonia, nitrate, chemical oxygen demand, total coliforms,

fecal coliforms, total bacterial counts (SPC), and plankton evaluations. Finally the same agency is making physical, biological, and chemical studies of the bottom sediments in the vicinity of each intake crib.

The analytical methods used by the municipalities and the EPA are found in "Great Lakes-Illinois River Basin Chemistry Laboratory Manual, Lake Michigan Basin Office", "Laboratory Manual, Lake Erie Basin Office", and in "Standard Methods for the Examination of Water and Wastewater", 13th ed. Toxic heavy metals analysis made by the Ohio Department of Health and the Pennsylvania Department of Environmental Resources are performed spectrometrically employing atomic absorption. Fluoride and cyanide analyses are performed according to standard methods.

Tables 1 and 6 show data supplied by the Ohio Department of Health and the Pennsylvania Department of Environmental Resources, respectively. Table 4 contains municipal data. Tables 2, 3, 5, 7 and 8 show data supplied by EPA. The abbreviations for data compilation are listed on pages 9 and 10.

TABLE I

SUMMARY OF WATER INTAKE PHYSICAL DATA

Location Number	Intake	Latitude	Longitude	Total** Depth (ft.)	Intake** Depth (ft.)	Intake Line Diameter (in.)	Intake Line Type	Distance from Shore (ft.)	%WA	%WB
E3-1	Toledo	41°42'00"	83°15'32"	17	10±5	108	C	11,000	50	50
C7-4	Port Clinton	41°31'22"	82°56'21"	8	4	30	C	2,000	75	25
B11-1	Sandusky	41°27'51"	82°38'50"	21	16	42	S	2,900	100	0
A12-4	Huron	41°24'23"	82°33'24"	15	10	36	C	2,100	100	0
B14-4	Vermilion	41°25'42"	82°22'09"	11	7	18	S	1,200	100	0
B16-6	Elyria	41°27'26"	82°13'15"	20	11	42	I	1,200	100	0
B16-5	Lorain	41°28'21"	82°11'41"	24	11	48	I	1,100	95	5
C18-1	Avon Lake	41°30'46"	82°02'36"	21	18	36	C	2,000	100	0
C20-1	Cleveland-Crown	41°31'08"	81°52'46"	44	*19	96	C	13,000	100	0
C21-3	Cleveland-Division	41°32'50"	81°45'50"	50	34	120	C	20,000	100	0
C21-4	Cleveland-Baldwin	41°32'54"	81°45'02"	47	17±9	108	C	17,000	50	50
D23-1	Cleve.-Nottingham	41°37'05"	81°37'02"	49	38	120	C	18,000	100	0
E26-1	O.W.S. - Mentor	41°43'34"	81°22'05"	17	14	36	C	2,000	100	0
F27-18	Painesville	41°45'24"	81°17'53"	11	6	24	I	1,100	50	50
G30-1	O.W.S. - Madison	41°50'00"	81°04'38"	20	16	24	I	1,800	95	5
G33-3	Ashtabula	41°54'30"	80°48'38"	23	20	30	C	1,600	95	5
H36-5	Conneaut	41°57'54"	80°34'38"	19	13	24	I	2,000	100	0
J41-8	Erie	42°09'24"	80°09'10"	28	22	60	I	6,000	100	0
N50-1	Dunkirk	42°29'50"	79°21'21"	40	22	36	I	1,200	100	0
Q54-1	Sturgeon Point	42°42'00"	79°02'42"	31	25	120	C	2,500	100	0
R56-1	Woodlawn	42°48'00"	78°52'16"	24	17	30	I	3,600	100	0
S56-31	Buffalo	42°52'46"	78°54'45"	28	17	110	C	6,600	0	100

Notes: * Depth of intake as of 9/17/68. Previous depth was 34 feet.
** All depths referred to mean low water level (568.6 feet).

Abbreviations: C-Concrete; I-Iron; S-Steel; %WA-Percent of raw water from above center line of inlet port; %WB-Percent of raw water from below center line of inlet port.

TABLE 2

SEDIMENT CHEMISTRY*
mg/g

Station	PO_4-P	Percent Solids	Volatile Solids	Total Kjeldahl Nitrogen	Oil & Grease	Total Iron	COD
Toledo**	--	--	--	--	--	--	--
Port Clinton	0.46	51.71	59.24	1.45	2.77	17.5	44.08
Sandusky	0.57	52.89	65.44	1.58	4.37	17.0	46.76
Huron	0.42	72.69	19.63	0.29	2.13	12.4	12.46
Vermilion**	--	--	--	--	--	--	--
Lorain	0.35	70.46	26.01	0.60	2.97	22.3	24.91
Elyria	0.35	75.23	26.64	0.50	1.45	22.0	27.10
Avon	0.46	75.70	14.05	0.28	1.69	80.2	19.10
Cleve-Crown	0.42	50.63	56.01	1.60	1.72	30.3	18.20
Cleve-Division	0.69	72.77	17.91	0.34	0.68	50.4	24.57
Cleve-Baldwin	0.65	60.76	23.90	1.29	1.45	46.2	37.22
Cleve-Nottingham	0.51	46.80	37.41	1.69	2.08	44.2	50.20
Mentor	0.26	73.90	8.97	0.16	0.43	29.2	10.16
Painesville	0.17	78.06	13.43	0.22	0.33	13.6	11.79
Madison	0.44	58.18	37.36	1.01	3.18	32.1	53.57
Ashtabula	0.33	76.29	10.99	0.25	0.75	53.7	18.44
Conneaut**	--	--	--	--	--	--	--

* No sediment chemistry data available on Erie, Dunkirk, Sturgeon Point, Woodlawn, and Buffalo stations.

** Substrate such to make sampling for chemical analysis impossible.

TABLE 3

SEDIMENT - PHYSICAL AND BIOLOGICAL CHARACTERISTICS *

Municipality	Bottom Sediment Description at Water Intake (1000 ft. Radius)	
	Physical	Biological
Toledo	Grey-black sludge, some coarse sand and gravel, marshy odor	Tubificidae, Chironomidae, Sphaeriidae, Nematoda, Pulmonata
Port Clinton	Rocky, coarse brown and grey sand, no odor detectable	Tubificidae, Chironomidae, Unionidae, Nematoda
Sandusky	Grey-black sludge with brown overlay, marshy odor	Chironomidae, Tubificidae, Unionidae, Sphaeriidae
Huron	Fine brown sand, grey sludge, shale, no odor detectable	Chironomidae, Tubificidae, Amphipoda, Isopoda, Tricoptera, Prosobranchia
Vermilion	Very rocky, shale, fine sand, no odor detectable	Amphipoda, Tricoptera, Ephemeroptera, Turbellaria, Tubificidae, Chironomidae
Elyria	Very rocky, coarse sand and gravel, fishy odor	Amphipoda, Hydra, Bryazoa, Turbellaria, Ephemeroptera, Tricoptera, Hirudinea, Tubificidae, Chironomidae
Lorain	Very rocky, grey-brown fine sand, some sludge, slightly septic odor	Chironomidae, Tubificidae, Bryozoa, Tricoptera, Hirudinea, Turbellaria, Amphipoda, Ephemeroptera
Avon	Very rocky, shale, fine dark brown sand, some clay, no odor detectable	Tubificidae, Isopoda, Amphipoda, Hirudinea, Tricoptera, Hydra, Bryozoa, Pulmonata, Chironomidae, Prosobranchia, Turbellaria, Ephemeroptera
Cleveland Crown	Grey-black sludge, clay, heavy light-brown overlay, fishy odor	Tubificidae, Nematoda, Unionidae, Chironomidae

TABLE 3 (Concluded)

SEDIMENT - PHYSICAL AND BIOLOGICAL CHARACTERISTICS *

Municipality	Bottom Sediment Description at Water Intake (1000 ft. Radius)	
	Physical	Biological
Cleveland Division	Coarse sand, some grey-black sludge, some oil, fishy, oil odor	Tubificidae, Isopoda, Nematoda, Chironomidae, Prosobranchia, Sphaeriidae
Cleveland Baldwin	Rocky, coarse grey sand, some grey-black sludge, fishy, septic odor	Tubificidae, Chironomidae, Sphaeriidae, Isopoda, Hydra, Bryozoa, Nematoda
Cleveland Nottingham	Grey-black sludge, light-brown overlay, coarse sand, some oil, septic	Tubificidae, Chironomidae, Hirudinea, Isopoda, Prosobranchia, Sphaeriidae
Ohio Water Service Mentor	Rocky, coarse sand and silt, some fine grey-brown sand, fishy odor	Ephemeroptera, Tricoptera, Amphipoda, Prosobranchia, Hydra, Bryozoa, Unionidae, Amphipoda, Chironomidae, Tubificidae, Hirudinea, Sphaeriidae
Painesville **	Fine brown sand, no odor detectable	Tubificidae, Chironomidae
Ohio Water Service Madison	Shale, fishy odor	Tricoptera, Ephemeroptera, Plecoptera, Turbellaria, Hirudinea, Prosobranchia, Bryozoa, Tubificidae
Ashtabula	Fine grey-brown sand and silt and gravel. No odor detectable	Tubificidae, Sphaeriidae, Amphipoda, Chironomidae, Ephemeroptera, Prosobranchia, Pulmonata, Hydra, Bryozoa
Conneaut	Rock bottom, no odor detectable	Amphipoda, Ephemeroptera, Tricoptera, Plecoptera, Chironomidae, Tubificidae, Prosobranchia, Pulmonata, Turbellaria, Bryozoa

* Sediments sampled April, 1968: no sediment - physical and biological characteristics data available on Erie, Dunkirk, Sturgeon Point, Woodlawn, and Buffalo stations.

** Physical nature of substrate poor for benthic fauna habitat.

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LIST OF ABBREVIATIONS FOR DATA COMPILATION

Abbreviations are used in this report for tabulated data according to the following list:

Units

°C - degrees centigrade
mg/l - milligrams per liter
No./ml - number per milliliter
umhos/cm - micromhos per centimeter

Chemistry

Ag - silver in mg/l
Alk - alkalinity (expressed as total alkalinity) in mg/l $CaCO_3$
As - arsenic in mg/l
Ba - barium in mg/l
BOD - biochemical oxygen demand in mg/l
Cd - cadmium in mg/l
Cl - chloride in mg/l
Cl Dem. - chlorine demand in mg/l
Clr - color in platinum-cobalt units
CN - cyanide in mg/l
COD - chemical oxygen demand in mg/l
Cond - conductivity in umhos/cm at 25°C
Cr - chromium in mg/l
Cu - copper in mg/l
DO - dissolved oxygen in mg/l
DS - dissolved silica (SiO_2) in mg/l
F - fluoride in mg/l
Fe - iron (expressed as total iron) in mg/l
Hard - hardness in mg/l as $CaCO_3$
MBAS - methylene blue active substance (anionic detergent) in mg/l
Mn - manganese (expressed as total manganese) in mg/l
NH_3-N - ammonia nitrogen in mg/l
NO_3-N - nitrate nitrogen in mg/l
Org-N - organic nitrogen in mg/l
Pb - lead in mg/l
pH - hydrogen ion concentration
PO_4-P - phosphate phosphorus in mg/l
% Sat - percent saturation of dissolved oxygen
Se - selenium in mg/l
SO_4 - sulfate in mg/l
SP^4 - soluble phosphorus in mg/l
TP - total phosphorus in mg/l
T - temperature in degrees centigrade
TO - threshold odor
TB - turbidity in mg/l SiO_2 (silica)
TDS - total dissolved (filterable) solids in mg/l
TS - total solids in mg/l
TSS - total suspended (nonfilterable) solids in mg/l

Microbiology

Fec. Coli. - fecal coliform per 100 ml
T. Coli. - total coliform per 100 ml
SPC - standard plate count per milliliter

TABLE 4

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Toledo - E0301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
1-1-70	0.6	2					0.3	8.3	90		124						0
1-2-70	0.6	2		302			0.2	8.5	91		126						2
1-5-70	0.6	3		329			0.3	8.5	96		137						0
1-6-70	0.6	2		322			0.8	8.5	96		136						0
1-7-70	0.6	3		317			1.1	8.5	96		136		23				0
1-8-70	0.6	2		320			1.2	8.5	96		135						0
1-9-70	0.6	2		295			0.9	8.5	96		136						0
1-12-70	0.6	2		319			0.7	8.4	94		127						0
1-13-70	0.6	2		300			0.4	8.3	94		127						0
1-14-70	0.6	2		292			0.4	8.3	94		127		23				0
1-15-70	0.6	2		295			0.5	8.3	93		126						0
1-16-70	0.6	2		295			0.6	8.2	93		125						0
1-19-70	0.6	2		298			0.7	8.1	92		126						2
1-20-70	0.8	2		314			0.7	8.1	95		131						0
1-21-70	0.8	2		328			0.6	8.1	99		138		21				0
1-22-70	0.8	2		341			0.8	8.0	101		141						0
1-23-70	0.8	2		340			0.9	8.1	101		142						0
1-26-70	0.8	2		349			0.8	8.1	103	191	145						2
1-27-70	0.8	2		357			0.8	8.2	103		145						0
1-28-70	1.1	2		352			0.8	8.2	104		146		21				2
1-29-70	1.1	2		349			0.7	8.1	104		146						6
1-30-70	1.1	2		353			0.8	8.2	104		146						0
Jan. Avg.	0.9	2		322			0.7	8.3	97	191	135		22				0.6
Max.	1.1	3		357			1.2	8.5	104	191	146		23				6.0
Min.	0.6	2		292			0.2	8.0	90	191	124		21				0.0
2-2-70	1.1	2		368			0.8	8.2	106	248	151						2

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Toledo - E0301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
2-3-70	1.1	2		372			1.0	8.1	108		155					6	
2-4-70	1.4	3		402			1.7	8.1	121		179		24			38	
2-5-70	1.4	4		670			1.8	8.2	159		249					140	
2-6-70	1.1	7		690			2.3	8.1	181		290					780	
2-9-70	0.9	15		485			1.9	8.1	123		189					780	
2-10-70	0.9	20		484			1.5	8.0	117		183					240	
2-11-70	1.1	25		402			0.9	7.9	108		166		37			780	
2-12-70	1.1	30					1.0	8.1	105		165					1,430	
2-13-70	1.1	30		382			1.1	8.1	104		167					270	
2-16-70	0.9	30		390			1.2	7.9	104	229	171					780	
2-17-70	1.1	35		405			1.3	7.9	104		173					350	
2-18-70	1.1	35		408			1.0	7.9	104		174		25			460	
2-19-70	1.1	35		407			1.0	7.8	105		173					460	
2-20-70	0.9	30		412			1.3	8.0	106		173					780	
2-23-70	1.1	25					2.2	7.8	99		159					158	
2-24-70	1.1	25		438			1.7	7.9	104		170					305	
2-25-70	1.1	20		486			1.1	8.0	121		202		27			780	
2-26-70	1.0	15		424			1.3	8.0	115		189					790	
2-27-70	0.9	15		424			1.0	7.9	104		158					1,212	
Feb Avg.	1.1	20		447			1.4	8.0	115	239	181		28			527	
Max.	1.4	35		690			2.3	8.2	181	248	290		37			1,430	
Min.	0.9	2		368			0.8	7.8	99	229	151		24			2	
3-2-70	0.6	4		324			0.8	7.7	88	201	116					0	
3-3-70	0.6	4		309			1.2	7.8	89		115					2	
3-4-70	0.6	4		314			1.7	8.1	90		115		28			6	
3-5-70	0.6	5		315			1.8	8.2	90		117					9	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Toledo - E0301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe.	T. Mn	T. Coli.	Plankton
3-6-70	0.6	4		319			1.4	8.3	89		117					0	
3-9-70	0.6	90		411			1.7	8.1	113		187					2,400	
3-10-70	0.6	30		390			1.4	8.2	107		170					780	
3-11-70	0.6	25		382			1.2	8.3	106		167		22			670	
3-12-70	0.6	20		400			1.2	8.3	101		157					460	
3-13-70	0.9	20		358			1.1	8.4	96		146					142	
3-16-70	0.6	20		389			1.0	8.5	98		155					350	
3-17-70	0.6	20		367			1.1	8.3	97		155					84	
3-18-70	0.9	20		321			1.0	8.5	96		147		27			22	
3-19-70	0.6	9		314			0.8	8.3	86		117					33	
3-20-70	0.6	8		300			0.4	8.5	86		117					125	
3-23-70	1.4	15		310			0.9	8.2	89		130					5	
3-24-70	1.7	9		300			1.3	8.3	86		118					350	
3-25-70	1.9	8		282			2.0	8.3	86		119		19			122	
3-26-70	1.7	55		268			1.9	8.3	87		118					93	
3-27-70	2.2	125		337			1.8	8.3	103		149					350	
3-30-70	2.0	80		300			1.6	8.2	111		165					350	
3-31-70	2.2	60		342			1.2	8.1	103		148					350	
Mar Avg.	1.0	29		334			1.3	8.2	95	201	138		24			305	
Max.	2.2	125		411			2.0	8.5	113	201	187		28			2,400	
Min.	0.6	4		268			0.4	7.7	86	201	115		19			0	
4-1-70	2.5	40		335			1.1	8.1	94		131		22			167	
4-2-70	2.5	175		282			0.9	8.1	92		124					87	
4-3-70	3.0	160		485			1.2	8.2	127		205					2,400	
4-6-70	3.3	25		293			0.9	8.1	88		116					51	
4-7-70	3.1	20		288			1.0	8.1	86		113					13	
4-8-70	4.0	20		302			1.4	8.1	91		124		22			58	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Toledo - E0301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
4-9-70	5.3	25		262			1.4	8.1	87		116						43
4-10-70	5.9	40		420			2.2	8.1	94		139						142
4-13-70	5.6	85		281			1.7	8.0	96		142						131
4-14-70	5.8	115		330			2.7	8.2	105		165						150
4-15-70	6.1	135		395			2.4	8.1	105		168		20				460
4-16-70	6.1	75		345			1.9	8.1	101		160						167
4-17-70	6.4	60		342			1.6	8.1	99		154						93
4-20-70	7.2	220		360			1.7	8.0	106		167						305
4-21-70	7.5	110		335			1.1	8.1	103		154						142
4-22-70	8.0	70		468			0.9	8.1	114		185		21				142
4-23-70	8.9	50		455			1.5	8.1	119		205						350
4-24-70	3.0	25		286			1.1	8.1	92		132						33
4-27-70	8.5	10		307			0.4	8.1	88		128						12
4-28-70	9.7	10		325			0.2	8.2	90		133						23
4-29-70	10.0	10		332			0.2	8.2	91		136		23				19
4-30-70	10.6	10		335			0.2	8.2	91		136						23
Apr Avg.	6.3	68		344			1.3	8.1	98		147		22				228
Max.	10.6	220		485			2.7	8.2	127		205		23				2,400
Min.	2.5	10		262			0.2	8.0	86		113		20				12
5-1-70	11.7	10		310			0.5	8.4	91		135						15
5-4-70	12.8	25		330			0.3	8.6	96		146						33
5-5-70	12.2	20		327			1.3	8.4	96		146						4
5-6-70	12.0	50		340			1.3	8.4	93		136		22				12
5-7-70	11.7	35		325			1.4	8.3	94		139						12
5-8-70	12.0	15		272			0.7	8.5	88		123						5
5-11-70	12.8	5		234			0.7	8.6	81		104						4
5-12-70	13.3	4		239			0.5	8.7	81		106						0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Toledo - E0301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
5-13-70	13.3	4		239			0.4	8.7	84		111		18				2
5-14-70	13.3	10		240			0.5	8.7	82		109						2
5-15-70	13.6	45		290			0.8	8.7	90		125						12
5-18-70	15.0	95		402			1.3	8.4	111		172						562
5-19-70	15.6	60		355			1.9	8.3	109		170						350
5-20-70	15.8	25		335			1.2	8.5	100		145		19				68
5-21-70	15.6	25		279			0.7	8.6	97		141						577
5-22-70	15.6	15		310			1.1	8.6	94		133						33
5-25-70	17.8	35		332			1.6	8.3	97		146						59
5-26-70	18.3	40		315			0.9	8.5	97		144						23
5-27-70	18.0	75		348			0.9	8.4	99		150		17				33
5-28-70	17.8	60		332			0.7	8.5	99		149						43
May Avg.	14.4	33		308			0.9	8.5	94		137		19				92
Max.	18.3	95		402			1.9	8.7	111		172		22				577
Min.	11.7	4		234			0.3	8.3	81		104		17				0
6-1-70	18.0	10		262			0.4	8.6	87		117						26
6-2-70	18.3	10		265			0.7	8.6	87		116						4
6-3-70	18.1	35		245			0.6	8.5	86		112		18				18
6-4-70	18.0	85		255			0.7	8.4	88		114						43
6-5-70	17.8	50		268			1.0	8.3	90		120						26
6-8-70	18.3	35		292			0.8	8.2	93		127						18
6-9-70	18.3	20		329			0.9	8.2	91		125						15
6-10-70	18.3	15		256			0.9	8.3	90		124		18				16
6-11-70	18.3	10		269			1.1	8.3	88		119						11
6-12-70	18.9	10		260			1.3	8.3	89		119						6
6-15-70	20.6	15					1.3	8.2	87		118						5
6-16-70	21.0	8					1.2	8.3	87		118						9

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Toledo - EO301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
6-17-70	21.1	7					1.3	8.4	89		121		18				2
6-18-70	21.4	7					1.4	8.5	88		120						2
6-19-70	21.4	10					1.2	8.4	90		123						2
6-22-70	20.3	20					1.2	8.2	90		122						4
6-23-70	20.0	10					1.5	8.0	90		121						8
6-24-70	20.3	10					1.6	8.1	90		124		18				8
6-25-70	20.8	15					1.1	8.2	92		125						2
6-26-70	20.6	20					1.0	8.2	92		127						4
6-29-70	20.0	15					1.3	8.1	93		127						6
6-30-70	20.6	25					0.8	8.2	93		128						13
Jun Avg.	19.5	21		270			1.1	8.3	90		121		18				12
Max	21.4	85		329			1.6	8.6	93		128		18				43
Min.	17.8	7		245			0.4	8.0	86		112		18				2
7-1-70	20.8	15					0.7	8.1	95		130		18				2,400
7-2-70	21.4	25					0.5	8.1	98		135						780
7-3-70	21.4	6					0.8	8.1	93		125						350
7-6-70	21.4	8		292			0.5	8.5	92		122						48
7-7-70	22.0	5		270			0.9	8.6	90		120						12
7-8-70	22.0	5		259			1.1	8.7	89		116		18				84
7-9-70	21.7	4		260			1.5	8.5	88		115						47
7-10-70	21.7	3		250			1.5	8.4	88		114						22
7-13-70	21.4	8		255			1.2	8.1	89		116						12
7-14-70	21.7	5		268			0.6	8.1	87		113						26
7-15-70	22.2	5		268			0.4	8.0	88		115		17				6
7-16-70	22.8	9		270			0.4	8.1	88		116						2
7-17-70	23.0	8		260			0.5	8.1	91		122						16
7-20-70	22.6	7		275			0.5	7.9	87		115						12

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Toledo - E0301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
7-21-70	21.4	10		275			0.8	7.8	88		115						2
7-22-70	21.1	9		278			1.1	7.9	95		128		23				2
7-23-70	21.7	7		322			1.1	8.0	96		131						0
7-24-70	21.7	9		318			1.2	8.1	98		134						13
7-27-70	22.5	5		287			0.9	8.1	94		121						6
7-28-70	23.0	7		282			0.4	8.3	89		116						2
7-29-70	23.0	5		258			0.2	8.1	88		114		20				4
7-30-70	23.0	5		265			0.2	8.1	86		112						19
7-31-70	23.3	5		272			0.8	7.9	85		111						26
Jul Avg.	22.0	8		274			0.8	8.2	91		120		19				169
Max.	23.3	25		322			1.5	8.7	98		135		23				2,400
Min.	20.8	3		250			0.2	7.8	85		111		17				0
8-3-70	24.4	4		275			0.3	8.5	89		120						2
8-4-70	23.9	6		297			0.3	8.5	91		123						26
8-5-70	24.0	7		300			0.3	8.3	91		122		19				42
8-6-70	24.0	6		313			0.3	8.5	92		124						48
8-7-70	24.0	10		278			0.3	8.6	93		124						6
8-10-70	24.4	10					0.4	8.6	94		127						4
8-11-70	24.7	15					0.3	8.7	83		107						6
8-12-70	24.7	15					0.1	8.7	84		110		18				23
8-13-70	24.7	10		258			0.2	8.5	83		109						22
8-14-70	25.0	15		270			0.2	8.5	83		109						19
8-17-70	25.0	9		254			0.2	8.4	79		105						2
8-18-70	25.0	9		236			0.4	8.2	80		106						9
8-19-70	24.8	10		240			0.6	8.3	80		107		18				2
8-20-70	24.6	8		264			1.2	8.3	80		109						13

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Toledo - E0301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
8-21-70	24.6	10		260			1.0	8.4	79		108					47	
8-24-70	23.6	10		254			0.6	8.3	78		106					8	
8-25-70	23.3	9		258			0.7	8.7	80		110					125	
8-26-70	23.3	7		264			0.4	8.8	79		108		19			4	
8-27-70	23.6	7		265			0.6	8.8	79		107					7	
8-28-70	23.7	7		255			0.6	8.7	76		104					19	
8-31-70	24.2	15		250			0.8	8.8	79		106					235	
Aug Avg.	24.1	10		266			0.5	8.5	83		112		19			32	
Max.	25.0	15		313			1.2	8.8	94		127		19			235	
Min.	21.0	4		236			0.1	8.2	76		104		18			2	
9-1-70	23.3	10		256			0.7	8.8	78		106					670	
9-2-70	23.2	9		255			0.6	8.8	80		107		17			29	
9-3-70	23.0	10		253			0.6	8.8	80		108					33	
9-4-70	23.2	10		248			0.4	8.7	81		105					11	
9-8-70	23.0	15		246			0.4	8.5	81		106					9	
9-9-70	23.0	10		248			0.2	8.5	81		106		15			125	
9-10-70	23.0	15		242			0.2	8.5	82		106					5	
9-11-70	22.8	25		235			0.2	8.6	84		107					42	
9-14-70	20.8	60					0.3	8.2	85		108					25	
9-15-70	20.0	35					0.6	8.2	83		107					68	
9-16-70	20.0	20					0.9	8.1	84		114		14			122	
9-17-70	20.0	15		246			0.9	8.1	84		116					52	
9-18-70	20.2	10		260			1.0	8.0	84		117					125	
9-21-70	20.4	15		281			0.9	8.0	87		119					68	
9-22-70	20.8	10		265			0.6	7.9	87		118					23	
9-23-70	21.1	7		259			0.3	7.9	86		116		17			120	
9-24-70	21.1	25		246			0.4	8.0	87		116					122	
9-25-70	21.4	20		247			0.5	8.0	85		113					9	
9-28-70	20.0	15		249			0.2	8.1	85		112					19	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Toledo - E0301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
9-29-70	18.6	15		255			0.5	8.2	87		116						26
9-30-70	18.3	10		244			0.8	8.2	85		112		17				23
Sept Avg	21.1	17		252			0.5	8.3	84		111		16				82
Max	23.3	60		281			1.0	8.8	87		119		17				670
Min	17.5	7		235			0.2	7.9	78		105		14				5
10-1-70	17.8	15		242			0.7	8.2	85		111						43
10-2-70	17.2	10					0.7	8.2	84		109						4
10-5-70	15.6	10		253			0.6	8.2	85		110						26
10-6-70	16.1	8		238			0.5	8.2	86		111						26
10-7-70	16.1	6		234			0.2	8.3	84		107		15				15
10-8-70	16.1	7					0.2	8.3	84		110						2
10-9-70	16.4	8					0.2	8.4	85		108						6
10-12-70	16.1	25					0.1	8.3	84		105						5
10-13-70	16.1	15					0.3	8.4	83		105						68
10-14-70	16.1	15					0.4	8.2	84		106		14				23
10-15-70	15.8	30					0.6	8.3	85		107						13
10-16-70	15.0	25					0.5	8.3	88		114						23
10-19-70	13.6	6		248			0.7	8.3	87		113						2
10-20-70	13.9	8		249			0.4	8.3	87		113						2
10-21-70	13.6	9		246			0.2	8.3	87		112		15				51
10-22-70	13.9	7		245			0.2	8.3	87		111						2
10-23-70	13.6	6		235			0.2	8.3	87		111						5
10-26-70	13.9	10					0.2	8.3	87		112						8
10-27-70	13.9	15					0.1	8.4	87		111						9
10-28-70	13.6	15		236			0.1	8.4	87		109		15				16
10-29-70	13.6	15		268			0.6	8.3	88		113						9
10-30-70	13.6	15		305			0.1	8.3	91		120						13

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Toledo - E0301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
Oct Avg	15.1	13		250			0.4	8.3	86		110		15			17	
Max	17.8	30		305			0.7	8.4	91		120		15			68	
Min	13.6	6		234			0.1	8.2	83		105		14			2	
11-2-70	13.9	15					0.2	8.2	90		116					9	
11-3-70	12.5	20					0.0	8.2	90		115					13	
11-4-70	12.2	15					0.2	8.2	92		120		16			11	
11-5-70	11.7	15		275			0.3	8.2	94		124					12	
11-6-70	10.6	15		284			0.5	8.2	93		121					5	
11-9-70	10.3	10		293			0.7	8.3	96		129					5	
11-10-70	10.3	10		290			1.0	8.3	98		130					13	
11-11-70	10.3	8					1.0	8.2	94		124		18			5	
11-12-70	10.6	10		263			0.7	8.3	92		122					6	
11-13-70	10.4	9		298			0.5	8.2	93		124					4	
11-16-70	8.6	30		239			0.4	8.3	87		113					4	
11-17-70	7.8	15		226			0.4	8.3	84		108					8	
11-18-70	7.5	20		269			0.6	8.2	96		126		18			6	
11-19-70	7.5	15		267			0.6	8.3	94		124					13	
11-20-70	7.2	30		296			0.7	8.2	96		127					6	
11-23-70	5.9	55		250			0.4	8.2	91		119					6	
11-24-70	3.9	55		268			0.2	8.2	89		118					77	
11-25-70	3.4	25		282			0.1	8.3	89		117		20			22	
11-27-70	3.6	20		271			0.1	8.1	82		107					2	
11-30-70	3.9	20		236			0.1	8.2	82		108					12	
Nov Avg	8.6	21		269			0.4	8.2	91		120		18			12	
Max	13.9	55		298			1.0	8.3	98		130		20			77	
Min	3.4	8		226			0.0	8.1	82		107		16			2	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Toledo - E0301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
12-1-70	4.1	15		219			0.3	8.2	82		105						12
12-2-70	4.7	15		246			0.1	8.2	82		108		19				2
12-3-70	5.0	10		265			0.1	8.2	82		109						18
12-4-70	5.0	35		279			0.2	8.2	89		119						120
12-7-70	2.6	45		232			0.8	8.1	86		113						84
12-8-70	1.7	20		236			0.3	8.2	83		110						83
12-9-70	2.0	20		247			0.5	8.1	83		112		20				58
12-10-70	2.2	25		250			0.4	8.1	82		115						58
12-11-70	2.2	25		292			0.8	8.1	81		120						33
12-14-70	2.0	35					0.7	8.2	86		117						252
12-15-70	1.1	35					2.0	8.3	92		127						195
12-16-70	1.1	30		248			2.5	8.2	90		125						572
12-17-70	1.1	35		272			1.5	8.2	90		125						252
12-18-70	0.9	30		330			2.5	8.4	99		142						195
12-21-70	1.1	20		284			1.3	8.2	95		134						558
12-22-70	1.1	80		233			2.1	8.2	95		137						305
12-23-70	1.1	25		302			1.7	8.2	92		129		17				1,430
12-24-70	0.9	40		335			2.1	8.3	106		157						1,100
12-28-70	0.6	10		289			1.9	8.3	102		149						58
12-29-70	0.6	9		340			1.4	8.3	104		152						277
12-30-70	0.6	10		352			1.1	8.3	113		174		18				142
12-31-70	0.6	9					1.1	8.3	112		170						305
Dec Avg	1.9	26		276			1.2	8.2	92		130		19				278
Max	5.0	80		352			2.5	8.4	113		174		20				1,430
Min	0.6	9		219			0.1	8.1	81		105		17				2

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn.	T. Coli.
1-1-70	0.0	25	200	16.5	113	1.9	8.1	99	100	186					2,700
1-2-70	0.0	25	230	16.5	113	2.3	8.1	96	115	146					1,100
1-3-70	0.0	25	210	16.1	110	2.0	8.1	96	105	150	24	22	0.007		300
1-4-70	0.0	25	310	14.6	100	8.2	7.9	104	155	180					1,400
1-5-70	0.0	25	240	15.4	105	3.6	8.0	105	120	184					3,400
1-6-70	0.0	25	240	15.5	106	3.3	8.2	100	120	136					300
1-7-70	0.0	25	220	15.6	107	3.9	8.2	96	110	190					200
1-8-70	0.0	25	430	13.2	90	7.7	7.8	169	215						800
1-9-70	0.0	25	520	13.7	94	5.2	7.9	194	260	346					2,100
1-10-70	0.0	25	220	15.8	108	2.1	7.3	98	110	142	14	22	0.05		2,700
1-11-70	0.0	25	230	15.5	106	2.9	7.9	104	115	148					200
1-12-70	0.0	25	240	15.4	105	1.8	8.1	104	120	148					0
1-13-70	0.0	25	220	15.3	105	3.1	8.2	103	110	154					0
1-14-70	0.0	30	260	16.6	114	3.8	8.1	106	130	154					0
1-15-70	0.0	25	240	17.0	116	2.3	8.0	107	120	170					0
1-16-70	0.0	25	230	15.5	106	2.6	8.1	108	115	150	21	24	0.07		200
1-17-70	0.0	25	210	15.3	105	3.9	7.9	103	105	144					400
1-18-70	0.0	25	250	15.1	103	3.1	7.9	105	125	142					0
1-19-70	0.0	25	250	15.7	107	2.9	7.3	105	125	152					300
1-20-70	0.0	25	240	15.1	103	2.9	7.9	104	120	144					0
1-21-70	0.0	25	260	15.0	103	3.6	7.9	102	130	140					0
1-22-70	0.0	25	240	15.4	105	2.9	8.1	109	120	160					0
1-23-70	0.0	25	260	15.0	103	3.1	7.9	104	130	104					0
1-24-70	0.0	25	250	16.2	111	3.4	7.9	109	125	164					0
1-25-70	0.0	25	260	15.9	109	3.7	7.9	108	130	180					0
1-26-70	0.0	25	260	15.6	107	2.9	7.9	129	130	176					1,200
1-27-70	0.0	25	270	15.4	105	3.2	7.9	110	135	154		26			1,900

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn.	T. Coli.
1-28-70	0.0	25	250	15.0	103	3.4	7.9	106	125	152	38	26	0.04		0
1-29-70	0.0	25	280	16.3	111	2.9	7.9	106	140	200					100
1-30-70	0.0	25	620	15.4	105	4.5	7.8	206	310	404					5,200
1-31-70	0.0	25	640	13.2	90	11.9	7.7	204	320	376					14,000
Jan. Avg.	0.0	25	283	15.4	106	3.7	7.9	116	142	179	24	24	0.04		1,242
Max.	0.0	30	640	17.0	116	11.9	8.2	206	320	404	38	26	0.07		14,000
Min.	0.0	25	200	13.2	90	1.8	7.3	96	100	104	24	22	0.007		0
2-1-70	0.0	55	450	13.9	95	16.6	7.6	123	225	248					60,000
2-2-70	0.0	30	300	15.9	109	15.9	7.8	119	150	224					3,000
2-3-70	0.0	40	440	12.5	85	15.8	7.5	110	220	220					5,700
2-4-70	0.0	35	380	12.9	88	13.6	7.7	114	190	190					39,000
2-5-70	0.0	40	390	13.5	92	10.4	7.6	118	185	228					11,000
2-6-70	0.0	30	310	15.6	107	15.6	7.7	117	155	214					2,000
2-7-70	0.0	80	400	13.0	89	19.1	7.7	117	200	224					30,000
2-8-70	0.0	40	330	13.9	95	19.9	7.8	109	165	240					18,000
2-9-70	0.0	25	260	17.4	119	11.1	7.9	102	130	172					800
2-10-70	0.0	30	290	14.0	96	12.2	7.7	104	195	170	141	26	0.33		5,200
2-11-70	0.0	30	500	11.8	81	15.1	7.7	110	250	238					33,000
2-12-70	0.0	25	250	16.2	111	9.8	7.7	102	125	180					1,100
2-13-70	0.0	25	450	16.7	114	7.2	7.8	138	225	196					1,800
2-14-70	0.0	25	250	17.2	118	2.8	8.0	120	125	156					0
2-15-70	0.0	25	230	16.9	116	4.1	8.1	104	115	202					0
2-16-70	0.0	25	290	16.0	109	4.2	7.9	125	195	196					3,100
2-17-70	0.0	25	280	16.0	109	4.0	8.1	105	190	144	27	24	0.07		1,500
2-18-70	1.0	25	250	15.7	110	4.2	7.9	104	125	132					200

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-19-70	0.0	25	270	17.4	119	3.3	7.9	97	135	188					300
2-20-70	0.0	25	280	15.8	108	4.2	7.9	124	140	198					4,500
2-21-70	0.0	25	240	16.7	114	3.8	7.9	109	120	190					100
2-22-70	0.0	25	250	17.4	119	2.9	7.9	104	125	170					200
2-23-70	0.0	25	240	17.8	122	2.9	7.9	112	120	148					0
2-24-70	1.0	25	220	17.3	122	3.7	7.9	104	110	144	21	24	0.07		100
2-25-70	1.0	25	260	15.8	111	3.7	7.9	109	130	142					0
2-26-70	0.0	25	380	16.3	111	5.6	7.9	142	190	228					27,000
2-27-70	0.0	25	300	15.3	105	3.7	7.9	103	150	170					15,000
2-28-70	0.0	25	250	16.7	114	3.4	7.9	100	125	174					5,000
Feb. Avg.	0.1	31	312	15.6	107	8.5	7.8	112	161	190	63	25	0.16		9,557
Max.	1.0	80	500	17.8	122	19.9	8.1	142	250	248	141	26	0.33		60,000
Min.	0.0	25	220	11.8	81	2.8	7.5	97	110	132	21	24	0.07		0
3-1-70	0.0	25	290	15.3	105	4.0	7.9	109	145	196					1,000
3-2-70	0.0	25	300	15.5	106	3.0	7.9	103	150	156					700
3-3-70	0.0	25	240	15.8	108	3.5	7.9	104	120	144	22	24	0.08		600
3-4-70	0.0	25	240	14.5	99	3.6	7.9	100	120	144					10,000
3-5-70	0.0	25	220	16.2	111	2.4	7.9	98	110	164					1,000
3-6-70	0.0	25	300	14.7	100	6.1	7.9	111	150	170					6,000
3-7-70	0.0	25	250	16.6	114	5.2	8.1	110	125	140					2,000
3-8-70	0.0	35	260	15.6	107	9.8	7.9	96	130	156					2,000
3-9-70	0.0	90	410	13.8	94	14.5	7.7	100	205	210					15,000
3-10-70	1.0	50	310	17.0	120	10.6	7.7	106	155	220	38	28	0.30		17,000
3-11-70	0.0	40	300	15.4	105	13.2	7.7	110	150	184					15,000
3-12-70	0.0	40	280	18.4	126	5.7	8.1	105	140	150					700

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-13-70	0.0	40	250	18.3	125	5.2	7.9	102	125	158					1,000
3-14-70	0.0	40	240	19.5	133	5.4	8.1	96	120	152					200
3-15-70	0.0	40	240	19.3	132	4.9	8.1	107	120	166					100
3-16-70	0.0	50	250	19.1	131	3.2	8.1	108	125	176					0
3-17-70	0.0	35	250	18.9	129	4.6	7.5	102	125	154	30	28	0.12		0
3-18-70	0.0	40	220	17.6	120	4.8	7.9	100	110	152					600
3-19-70	0.0	50	300	18.9	129	4.3	7.9	114	150	186					12,000
3-20-70	0.0	55	220	19.9	136	3.7	8.0	100	110	162					3,000
3-21-70	0.0	50	210	16.9	116	4.1	8.1	101	105	152					300
3-22-70	0.0	55	230	17.6	120	5.9	8.1	103	115	152					800
3-23-70	0.0	60	250	18.2	125	3.6	8.1	107	125	176	26	24	0.22		700
3-24-70	2.0	60	250	16.2	117	4.9	8.1	104	125	180					0
3-25-70	2.0	55	270	16.1	116	4.7	8.1	106	185	182					100
3-26-70	1.0	50	230	15.3	108	6.8	7.9	97	115	196					300
3-27-70	1.0	90	190	14.6	103	4.8	8.1	96	95	154					100
3-28-70	1.0	70	310	13.8	97	4.1	8.1	112	155	208					1,000
3-29-70	0.0	90	270	14.3	98	6.0	8.1	104	185	174					1,000
3-30-70	0.0	110	200	14.3	98	3.5	7.9	94	100	154	33	28	0.44		1,900
3-31-70	2.0	110	260	14.1	102	6.5	7.9	110	180	190					14,000
Mar. Avg.	0.3	51	259	16.5	114	5.6	8.0	104	134	170	30	26	0.23		3,487
Max.	2.0	110	410	19.9	136	14.5	8.1	114	205	220	38	28	0.44		17,000
Min.	0.0	25	190	13.8	94	2.4	7.5	94	95	140	22	24	0.08		0
4-1-70	2.0	60	260	15.0	108	6.4	7.9	107	180	194					3,700
4-2-70	2.0	70	200	13.5	98	3.5	7.9	97	100	176					14,000
4-3-70	2.0	120	300	13.4	97	3.9	7.9	102	150	190					900
4-4-70	1.0	110	220	14.8	104	6.0	7.9	97	110	158					100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-5-70	1.0	140	230	13.8	97	6.7	8.0	98	115	180					500
4-6-70	2.0	110	370	12.6	91	13.3	8.1	115	185	250					2,400
4-7-70	3.0	200	260	13.7	102	7.2	7.9	110	130	170	32	24	0.35		700
4-8-70	4.0	90	200	13.0	99	6.1	7.5	98	100	166					3,000
4-9-70	3.0	90	240	12.0	89	4.3	7.9	96	120	172					500
4-10-70	5.0	110	240	12.3	96	4.3	7.7	103	120	168					200
4-11-70	6.0	140	300	11.7	94	7.1	8.0	114	150	228					1,300
4-12-70	6.0	130	310	11.9	95	6.2	8.1	118	155	222					7,000
4-13-70	6.0	130	260	12.3	98	5.3	7.9	109	130	180					
4-14-70	6.0	100	250	12.0	96	7.2	7.7	104	125	178	46	26	0.33		3,100
4-15-70	6.0	80	320	11.8	94	5.9	7.9	108	160	188					2,400
4-16-70	8.0	60	400	11.6	97	7.8	7.9	153	200	316					4,300
4-17-70	8.0	60	400	12.2	102	4.6	7.9	160	200	300					2,900
4-18-70	8.0	50	270	12.4	104	5.2	8.0	109	135	188					300
4-19-70	8.0	40	230	12.3	103	5.1	8.0	103	115	166					600
4-20-70	8.0	50	190	12.0	101	4.0	8.0	115	85	164	38	24	0.20		1,400
4-21-70	8.0	55	230	11.5	97	5.0	7.9	108	115	156					110
4-22-70	8.0	45	270	11.0	92	5.0	7.9	106	135	184					300
4-23-70	10.0	50	320	11.5	101	3.5	8.0	120	160	210					3,200
4-24-70	10.0	50	310	11.7	103	4.3	8.0	121	155	210					400
4-25-70	10.0	40	100	11.9	105	4.9	8.0	120	50	194					100
4-26-70	12.0	40	310	12.1	111	5.1	8.1	119	155	198					700
4-27-70	12.0	70	240	11.6	107	5.4	8.0	116	120	192					
4-28-70	12.0	50	200	11.0	101	5.1	7.9	99	100	150	33	24	0.30		900
4-29-70	12.0	35	220	11.5	106	4.2	7.9	98	110	144					700
4-30-70	10.0	35	260	10.6	93	3.6	7.8	102	130	160					200

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
Apr. Avg.	6.6	80	264	12.3	100	5.5	7.9	111	133	192	37	25	0.30		1,997
Max.	12.0	200	400	15.0	111	13.3	8.1	160	200	316	46	26	0.35		14,000
Min.	1.0	35	100	10.6	89	3.5	7.5	96	50	144	32	24	0.20		100
5-1-70	12.0	65	300	10.7	98		7.9	103	150	184					15,000
5-2-70	12.0	50	250	7.6	70	5.3	7.9	97	125	158					800
5-3-70	12.0	50	220	12.0	110	5.6	8.1	98	110	164					1,000
5-4-70	12.0	50	230	11.5	106	3.9	8.2	109	115	160	24	22	0.14		2,100
5-5-70	12.0	55	240	11.1	102	4.7	8.1	97	120	152					2,700
5-6-70	12.0	90	240	10.4	95	7.6	7.9	100	120	150					200
5-7-70	12.0	70	280	10.1	93	6.3	8.0	117	140	210					4,900
5-8-70	14.0	80	250	10.5	101	4.7	7.9	112	125	196					4,100
5-9-70	14.0	60	300	10.2	99	6.5	8.0	120	150	232					400
5-10-70	14.0	40	260	11.0	106	6.0	8.1	119	130	170					400
5-11-70	16.0	50	260	10.3	104	5.3	7.9	104	130	172	26	24	0.15		300
5-12-70	14.0	40	230	9.7	94	3.9	7.9	95	165	170					1,100
5-13-70	14.0	35	240	9.1	88	4.6	8.1	97	120	160					21,000
5-14-70	15.0	50	230	9.1	90	5.6	7.9	99	115	164					
5-15-70	16.0	70	250	8.9	89	4.5	7.9	108	125	168					4,000
5-16-70	16.0	35	150	8.6	86	7.9	7.9	119	75	186					1,200
5-17-70	15.0	30	270	9.0	89	4.7	7.9	126	135	216					2,000
5-18-70	14.0	40	260	9.9	96	4.9	8.0	108	130	158	26	24	0.17		1,500
5-19-70	16.0	45	250	10.0	101	4.1	8.1	102	125	152					1,100
5-20-70	16.0	75	270	10.1	102	4.8	7.9	104	135	168					1,400
5-21-70	18.0	30	300	8.4	88	3.8	7.8	117	150	186					2,500
5-22-70	18.0	25	260	8.8	92	3.5	7.8	105	130	180					2,000
5-23-70	18.0	30	240	9.3	97	5.2	7.8	106	120	150					10,000
5-24-70	18.0	40	280	9.4	98	5.7	8.0	115	140	178					1,500

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton -C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-25-70	18.0	40	250	8.4	88	4.7	8.0	102	125	158	19	24	0.13		4,700
5-26-70	19.0	50	240	8.1	86	5.6	7.9	98	120	160					1,200
5-27-70	18.0	60	250	8.0	83	5.3	7.9	100	125	156					1,100
5-28-70	18.0	30	250	8.1	84	3.6	7.9	104	125	158					2,000
5-29-70	18.0	30	260	8.4	88	4.8	8.0	103	130	156					3,000
5-30-70	18.0	25	270	7.8	81	5.4	8.0	105	135	166					1,000
May Avg.	15.3	48	253	9.5	94	5.1	8.0	106	128	171	24	24	0.15		3,248
Max.	19.0	90	300	12.0	110	7.9	8.2	126	165	232	26	24	0.17		21,000
Min.	12.0	25	150	7.6	70	3.5	7.8	95	75	150	19	22	0.13		200
6-1-70	18.0	40	240	6.9	72	3.7	7.9	96	120	144	20	20	0.13		1,100
6-3-70	18.0	80	250	7.6	80	5.3	7.9	98	125	160					2,100
6-4-70	17.0	40	250	7.6	78	4.4	7.9	100	125	168					4,200
6-5-70	18.0	40	270	7.7	81	5.0	7.9	108	135	190					6,000
6-6-70	18.0	60	250	8.0	84	5.0	7.9	105	125	158					5,700
6-7-70	19.0	45	270	6.8	73	5.6	7.7	104	135	154					2,100
6-8-70	19.0	35	250	6.9	74	4.9	7.7	100	125	150	23	24	0.13		5,000
6-9-70	21.0	40	260	7.0	78	5.1	7.9	102	130	152					1,700
6-10-70	21.0	40	250	6.5	72	6.0	7.9	97	125	148					3,000
6-11-70	20.0	25	260	5.6	61	4.7	7.8	106	130	160					1,900
6-12-70	22.0	25	250	6.8	77	5.0	7.9	102	125	164					500
6-13-70	21.0	25	260	6.9	77	7.4	7.7	113	130	170					1,000
6-14-70	20.0	40	260	5.1	56	7.0	7.6	109	130	160					2,100
6-15-70	20.0	30	250	5.9	64	5.2	7.7	100	125	164	24	22	0.15		1,100
6-16-70	20.0	25	240	5.0	54	6.2	7.7	96	120	144					300
6-17-70	19.0	25	250	4.9	52	7.3	7.5	106	125	150					800
6-18-70	20.0	25	320	5.9	64	5.4	7.6	121	160	170					1,000

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton -C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-19-70	21.0	30	230	6.6	73	4.8	7.7	99	115	140					600
6-20-70	21.0	30	270	5.4	60	8.8	7.6	115	135	168					400
6-21-70	20.0	25	250	5.9	64	6.7	7.7	96	125	154					800
6-22-70	19.0	35	340	6.5	69	7.8	7.5	119	170	220					1,000
6-23-70	20.0	30	290	7.3	79	7.0	7.6	101	195	160					700
6-24-70	20.0	30	280	6.0	65	9.1	7.5	111	140	179					1,200
6-25-70	19.0	55	250	7.5	80	6.6	7.7	104	125	154					2,000
6-26-70	20.0	35	270	7.2	78	7.4	7.8	102	135	166					2,100
6-27-70	19.0	70	240	7.0	75	8.1	7.7	107	120	178	27	26	0.16		1,600
6-28-70	20.0	50	250	6.9	75	7.1	7.7	97	125	160					1,200
6-29-70	20.0	40	250	7.1	77	6.3	7.9	96	125	146					500
6-30-70	21.0	25	240	6.8	75	4.7	7.9	97	120	150					300
June Avg.	19.7	37	260	6.6	71	6.1	7.7	104	132	161	24	23	0.14		1,754
Max.	22.0	80	340	8.0	84	9.1	7.9	121	195	220	27	26	0.16		6,000
Min.	17.0	20	230	4.9	52	3.7	7.5	96	115	140	20	20	0.13		300
7-1-70	22.0	25	250	7.3	82	5.3	7.7	92	125	146					300
7-2-70	23.0	25	250	8.0	92	5.8	7.9	96	125	150					700
7-3-70	24.0	35	240	7.9	92	5.5	7.9	97	120	148	23	22	0.15		200
7-4-70	22.0	30	220	7.4	84	7.6	7.9	103	110	158					300
7-5-70	22.0	25	240	7.0	79	7.2	7.9	95	120	156					200
7-6-70	23.0	30	240	7.1	82	4.7	7.9	97	120	162					0
7-7-70	23.0	30	260	6.8	78	5.3	7.9	100	130	160					700
7-8-70	23.0	30	290	4.2	48	5.0	7.9	100	145	150					200
7-9-70	22.0	30	260	5.3	60	7.0	7.9	98	130	154					700
7-10-70	22.0	30	260	4.5	51	6.5	7.7	102	130	152					0
7-11-70	22.0	30	250	4.8	54	9.0	7.9	99	125	150	18	26	0.10		300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton -C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
															900
7-12-70	23.0	30	250	4.9	56	6.7	7.9	105	125	152					0
7-13-70	22.0	25	280	1.8	20	5.9	7.5	105	140	162					100
7-14-70	22.0	25	270	2.4	27	8,2	7.5	104	135	104					0
7-15-70	23.0	25	270	4.1	47	6.8	7.5	106	135	154					2,100
7-16-70	22.0	25	280	4.5	51	8.0	7.5	107	140	172					600
7-17-70	22.0	25	270	5.0	56	7.0	7.5	101	135	156					800
7-18-70	23.0	25	260	5.2	60	6.2	7.7	104	130	160	21	24	0.12		500
7-19-70	23.0	25	260	5.1	59	7.3	7.7	102	125	162					900
7-20-70	22.0	25	270	4.7	53	9.1	7.7	97	135	154					500
7-21-70	20.0	40	220	5.0	54	9.1	7.5	99	110	136					300
7-22-70	21.0	25	240	5.2	58	6.8	7.7	94	120	130					1,100
7-23-70	22.0	25	230	5.2	38	7.7	7.5	95	115	138					300
7-24-70	22.0	30	250	4.7	53	6.7	7.5	97	125	154					400
7-25-70	22.0	25	240	5.0	56	7.0	7.5	99	120	160	19	22	0.12		700
7-26-70	23.0	25	250	4.8	55	7.0	7.5	96	125	156					300
7-27-70	22.0	25	250	2.3	26	7.0	7.5	99	125	148					1,400
7-28-70	22.0	25	250	2.1	24	7.1	7.3	100	125	136					500
7-29-70	23.0	25	250	2.0	23	7.7	7.5	99	125	156					2,600
7-30-70	24.0	25	250	3.0	35	7.1	7.5	100	125	154					700
7-31-70	24.0	25	250	5.6	65	5.1	7.7	98	125	148					
															576
July Avg.	22.4	27	253	4.9	57	6.9	7.7	100	126	151	20	24	0.12		2,600
Max.	24.0	40	290	8.0	93	9.1	7.9	107	145	172	23	26	0.15		0
Min.	20.0	10	220	1.8	20	4.7	7.3	92	110	104	18	22	0.10		
															700
8-1-70	24.0	25	260	4.6	54	7.1	7.7	99	130	150	19	22	0.12		1,300
8-2-70	24.0	30	270	4.2	49	6.6	7.7	96	135	146					500
8-3-70	24.0	25	240	4.9	57	5.6	7.7	98	120	146					

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-4-70	24.0	40	260	5.0	58	7.4	7.7	98	120	150					200
8-5-70	24.0	30	250	4.1	48	6.5	7.7	96	125	146					1,700
8-6-70	24.0	30	240	4.1	48	5.7	7.7	96	120	146					1,200
8-7-70	24.0	25	250	3.9	46	6.5	7.7	99	125	152					200
8-8-70	24.0	40	250	4.9	57	6.3	7.7	98	125	148					100
8-9-70	24.0	25	240	4.5	53	7.8	7.7	97	120	150					1,000
8-10-70	24.0	25	230	4.9	57	5.6	7.7	99	115	144					1,000
8-11-70	24.0	25	230	6.3	74	6.0	7.7	97	115	134					100
8-12-70	24.0	50	250	5.6	65	5.4	7.5	97	125	140	21	24	0.13		700
8-13-70	24.0	30	240	5.4	63	5.1	7.7	98	120	142					1,100
8-14-70	24.0	30	240	5.5	64	5.4	7.7	96	120	144					200
8-15-70	24.0	25	240	2.6	30	7.3	7.5	98	120	144					700
8-16-70	24.0	25	240	4.3	50	6.7	7.7	96	120	158					1,000
8-17-70	24.0	30	240	4.3	50	5.6	7.7	96	120	136					1,800
8-18-70	24.0	30	240	3.9	46	7.3	7.5	99	120	148					600
8-19-70	24.0	35	250	5.4	63	6.9	7.7	98	125	144					1,100
8-20-70	24.0	30	240	5.1	60	5.4	7.7	97	120	140	20	24	0.13		1,300
8-21-70	24.0	35	260	5.0	58	6.5	7.7	99	130	142					900
8-22-70	24.0	30	250	5.1	60	7.3	7.7	98	125	144					400
8-23-70	23.0	30	240	4.9	56	6.7	7.7	97	120	142					1,300
8-24-70	22.0	30	230	6.9	78	5.4	7.7	90	115	130					700
8-25-70	24.0	25	220	5.5	64	5.8	7.7	95	110	140					2,800
8-26-70	22.0	30	210	7.5	85	7.2	7.7	90	105	126					2,400
8-27-70	24.0	40	220	7.2	84	5.2	7.7	88	110	134	16	20	0.15		1,900
8-28-70	24.0	50	210	6.5	76	7.3	7.7	85	105	136					2,100
8-29-70	24.0	60	220	7.3	85	6.3	7.7	85	110	126					800
8-30-70	24.0	35	200	6.1	71	8.6	7.7	84	100	120					300
8-31-70	24.0	60	230	6.5	76	6.4	7.7	86	115	142					1,100

TABLE 4 (Continued)

WATER CHEMISTRY WATER PLANT INTAKES

mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
Aug. Avg.	23.8	33	238	5.2	61	6.4	7.7	95	119	142	19	22	0.13		978
Max.	24.0	60	270	7.5	86	8.6	7.7	99	135	158	21	24	0.15		2,800
Min.	22.0	9	200	2.6	31	5.1	7.5	84	100	120	16	20	0.12		80
9-1-70	24.0	50	220	7.8	91	7.8	7.7	86	110	146					1,500
9-2-70	22.0	50	210	6.3	71	7.3	7.7	85	105	150					1,700
9-3-70	23.0	40	220	6.0	69	7.6	7.7	89	110	148					2,100
9-4-70	23.0	40	230	5.7	65	8.8	7.7	87	115	144	18	22	0.13		1,000
9-5-70	22.0	40	220	6.3	71	8.5	7.7	85	110	144					2,100
9-6-70	22.0	25	240	6.8	77	11.5	7.7	83	120	146					1,000
9-7-70	22.0	25	220	5.5	62	8.3	7.7	85	110	150					900
9-8-70	22.0	35	250	5.6	63	7.9	7.7	86	125	164					700
9-9-70	22.0	30	220	5.7	64	8.9	7.7	92	110	156					1,500
9-10-70	23.0	50	230	5.4	62	7.9	7.7	94	115	158	21	20	0.15		1,100
9-11-70	22.0	30	240	5.6	63	7.7	7.7	92	120	154					900
9-12-70	22.0	25	230	6.5	73	7.3	7.7	93	115	150					800
9-13-70	22.0	25	220	6.4	72	10.1	7.7	92	110	152					2,100
9-14-70	18.0	60	240	7.3	77	7.0	7.9	95	120	150					30,000
9-15-70	19.0	65	240	7.0	75	6.7	7.7	94	120	152					47,000
9-16-70	19.0	35	230	7.0	75	8.5	7.7	93	115	150					4,100
9-17-70	19.0	30	240	6.8	73	5.9	7.7	94	120	152	20	22	0.4		2,900
9-18-70	20.0	35	240	7.1	77	6.4	7.7	94	120	150					2,700
9-19-70	20.0	40	230	7.5	82	6.7	7.7	93	115	154					2,000
9-20-70	20.0	25	240	7.7	84	7.5	7.5	94	120	156					2,600
9-21-70	20.0	40	240	6.9	75	9.6	7.5	93	120	152					400
9-22-70	22.0	25	240	7.8	88	5.8	7.9	93	120	154					1,100
9-23-70	22.0	25	220	8.0	90	6.3	7.9	92	110	150					1,500
9-24-70	22.0	40	220	7.7	87	5.8	7.7	93	110	150					2,700
9-25-70	22.0	35	230	7.9	89	6.0	7.9	91	115	152	20	22	0.13		3,200

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
9-26-70	22.0	40	250	8.1	91	5.7	7.9	90	125	154					1,000
9-27-70	20.0	50	230	8.3	90	5.2	7.5	93	115	150					1,400
9-28-70	19.0	60	240	8.1	87	4.6	7.9	91	120	152					1,400
9-29-70	17.0	60	210	8.4	86	4.4	7.9	93	105	148					
9-30-70	16.0	50	210	9.1	92	4.5	7.7	98	105	154					1,700
Sept. Avg.	20.9	39	230	7.0	78	7.2	7.7	91	115	151	20	22	0.14		4,245
Max.	24.0	65	250	9.1	92	11.5	7.9	98	125	164	21	22	0.15		47,000
Min.	16.0	25	210	5.4	62	4.4	7.5	83	105	144	18	20	0.13		400
10-1-70	16.0	50	230	9.0	91	5.3	7.7	96	115	152	20	22	0.14		1,300
10-2-70	16.0	40	240	9.1	92	4.1	7.7	97	120	154					
10-3-70	16.0	30	230	9.3	94	4.6	7.9	95	115	150					1,000
10-4-70	14.0	60	240	10.0	97	5.1	7.7	97	120	160					1,000
10-5-70	14.0	40	250	9.8	95	2.8	7.9	96	125	150					800
10-6-70	14.0	40	250	10.4	101	4.0	7.9	95	125	150					600
10-7-70	14.0	60	240	10.4	101	4.6	7.5	96	120	150					300
10-8-70	14.0	40	230	10.2	99	4.4	7.9	94	115	146	23	20	0.13		600
10-9-70	16.0	30	220	10.1	102	4.4	7.9	96	110	150					
10-10-70	16.0	25	240	9.5	96	4.5	7.7	95	120	150					3,400
10-11-70	16.0	50	230	9.8	99	6.7	7.9	96	115	152					3,600
10-12-70	15.0	50	240	9.8	97	4.2	7.9	97	120	152					5,800
10-13-70	15.0	25	240	9.3	92	4.3	7.7	97	120	150					6,100
10-14-70	16.0	25	230	9.7	98	5.2	7.7	96	115	150					49,000
10-15-70	15.0	60	230	10.1	100	3.8	7.7	98	115	160					6,000
10-16-70	14.0	60	230	10.4	101	4.1	7.5	96	115	150	26	22	0.13		2,300
10-17-70	12.0	100	220	11.0	102	7.4	7.5	98	110	160					1,900
10-18-70	12.0	80	240	11.3	105	4.9	7.5	99	120	162					1,800
10-19-70	12.0	40	220	10.2	95	4.6	7.5	97	110	154					700
10-20-70	12.0	60	240	11.1	103	3.7	7.7	98	120	152					2,100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-21-70	12.0	25	220	9.5	88	4.3	7.7	96	110	150					1,000
10-22-70	12.0	30	240	10.6	99	2.3	7.7	96	120	150	19	22	0.08		7,800
10-23-70	12.0	30	240	11.6	108	3.4	7.7	97	120	156					700
10-24-70	13.0	25	230	10.5	100	3.7	7.5	95	115	154					4,900
10-25-70	13.0	25	220	10.1	96	3.9	7.9	96	110	148					5,100
10-26-70	14.0	35	230	9.3	92	3.2	7.9	96	115	144					5,500
10-27-70	14.0	50	230	9.4	91	3.4	7.7	96	115	148					13,000
10-28-70	13.0	30	220	9.5	90	4.6	7.5	95	110	156					31,000
10-29-70	14.0	25	220	10.0	97	3.5	7.7	98	110	154	21	20	0.10		1,300
10-30-70	12.0	25	210	9.5	88	3.1	7.5	98	105	150					7,400
10-31-70	13.0	25	200	10.1	96	4.3	7.9	94	100	134					2,200
Oct. Avg.	13.9	42	231	10.0	96	4.3	7.7	96	115	152	22	21	0.12		5,800
Max.	16.0	100	250	11.6	107	7.4	7.9	99	125	162	26	22	0.14		49,000
Min.	12.0	25	200	9.0	88	2.3	7.5	94	100	134	19	20	0.08		300
11-1-70	13.0	25	200	10.3	98	4.7	7.5	93	100	132					1,500
11-2-70	12.0	50	220	10.0	92	3.7	7.9	97	110	146					7,900
11-3-70	12.0	25	210	9.7	89	4.7	7.7	99	105	154					10,000
11-4-70	12.0	25	210	10.0	92	3.5	7.7	98	105	150	17	24	0.11		700
11-5-70	12.0	50	210	10.2	94	3.1	7.5	98	105	152					1,700
11-6-70	9.0	40	190	9.9	85	3.0	7.7	99	95	156					500
11-7-70	9.0	35	210	11.0	95	4.1	7.5	98	105	150					300
11-8-70	9.0	35	220	10.8	93	4.5	7.7	99	110	150					1,000
11-9-70	9.0	60	230	11.1	96	3.9	7.7	98	115	150					
11-10-70	9.0	25	210	10.1	87	4.9	7.7	99	105	146					400
11-11-70	9.0	25	210	10.6	91	3.8	7.7	98	105	154					700
11-12-70	10.0	25	210	10.8	95	3.2	7.7	96	105	156					300
11-13-70	10.0	30	220	10.6	94	3.0	7.7	97	110	152	19	22	0.12		800

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
11-14-70	9.0	70	210	11.2	97	4.3	7.5	99	105	154					1,100
11-15-70	7.0	100	210	11.3	93	5.4	7.5	98	105	164					1,500
11-16-70	6.0	100	180	11.7	94	3.7	7.5	99	90	152					1,100
11-17-70	7.0	50	190	11.4	94	3.8	7.7	98	145	148					200
11-18-70	7.0	45	220	11.5	95	4.1	7.7	97	110	146					0
11-19-70	5.0	35	220	11.9	93	2.7	7.5	97	110	148					100
11-20-70	5.0	35	190	11.6	91	3.4	7.7	96	95	152					300
11-21-70	5.0	60	180	11.1	87	4.1	7.7	98	90	148					0
11-22-70	5.0	40	190	11.1	87	4.3	7.7	99	95	152					100
11-23-70	4.0	55	190	12.3	94	2.4	7.5	98	95	154	18	22	0.12		0
11-24-70	2.0	70	200	12.1	88	3.7	7.7	98	100	152					0
11-25-70	1.0	60	240	14.1	100	3.4	7.5	99	120	154					300
11-26-70	1.0	60	170	11.5	81	2.9	7.5	98	85	156					700
11-27-70	1.0	50	180	12.8	90	4.1	7.7	99	90	154					300
11-28-70	2.0	70	190	13.1	95	3.6	7.7	97	95	152					500
11-29-70	2.0	90	200	13.3	97	4.8	7.5	98	100	150					300
11-30-70	2.0	70	190	13.5	98	3.0	7.5	97	95	146					300
Nov. Avg.	6.9	50	203	11.4	92	3.8	7.6	98	103	151	18	23	0.12		1,124
Max.	13.0	100	240	14.1	99	5.4	7.9	99	145	164	19	24	0.12		10,000
Min.	1.0	25	170	9.7	81	2.4	7.5	93	85	132	17	22	0.11		0
12-1-70	3.0	55	200	13.2	98	4.2	7.3	96	100	152					1,900
12-2-70	3.0	40	210	12.5	93	3.9	7.7	97	105	150					300
12-3-70	4.0	30	200	13.1	100	2.8	7.5	97	100	160					0
12-4-70	4.0	90	210	12.6	96	3.5	7.5	98	105	156					400
12-5-70	4.0	100	210	12.2	93	4.6	7.5	99	105	158					1,800
12-6-70	2.0	150	170	11.9	86	4.0	7.7	97	85	152					2,000

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
12-7-70	2.0	200	350	13.5	98	9.1	7.5	99	175	160					1,000
12-8-70	1.0	75	340	13.7	97	8.7	7.7	112	170	200	19	22	0.15		3,400
12-9-70	1.0	75	330	14.0	99	8.2	7.7	119	165	208					1,900
12-10-70	1.0	100	320	13.6	96	9.5	7.7	125	160	230					2,700
12-11-70	2.0	60	250	12.6	91	7.1	7.7	111	125	192					800
12-12-70	2.0	90	270	13.5	98	6.3	7.5	117	135	190					1,300
12-13-70	1.0	80	260	13.4	95	7.0	7.7	116	130	190					1,900
12-14-70	1.0	90	180	14.0	99	3.7	7.5	95	90	164					3,800
12-15-70	1.0	90	140	14.0	99	4.3	7.5	92	70	170					600
12-16-70	1.0	70	210	13.9	98	3.4	7.3	95	105	150					1,500
12-17-70	1.0	90	220	14.2	100	4.2	7.5	97	110	164	29	24	0.28		6,800
12-18-70	1.0	60	210	13.8	97	3.1	7.5	94	105	162					800
12-19-70	1.0	35	250	12.1	85	4.8	7.5	105	125	194					1,500
12-20-70	1.0	60	110	12.8	90	4.1	7.7	95	80	150					600
12-21-70	1.0	55	200	14.0	99	3.0	7.5	96	100	146					300
12-22-70	1.0	80	190	14.0	99	4.0	7.5	97	95	160					300
12-23-70	1.0	60	220	14.1	100	4.3	7.5	97	110	146					1,100
12-24-70	1.0	90	190	13.9	98	4.1	7.7	96	95	160					500
12-25-70	1.0	50	210	13.8	97	5.5	7.5	99	105	166					600
12-26-70	1.0	40	210	14.5	102	3.0	7.5	98	105	160					600
12-27-70	1.0	30	250	14.3	101	4.6	7.7	99	125	174					500
12-28-70	1.0	25	200	14.9	105	3.6	7.3	99	100	154	38	24	0.13		200
12-29-70	1.0	25	230	14.5	102	3.6	7.7	106	115	180					300
12-30-70	1.0	25	210	14.9	105	3.8	7.5	98	105	154					200
12-31-70	1.0	25	210	14.2	100	3.6	7.5	97	105	150					0
Dec. Avg.	1.5	69	225	13.6	97	4.8	7.6	101	113	168	29	23	0.18		1,277
Max.	4.0	200	350	14.9	105	9.5	7.7	125	175	230	38	24	0.28		6,800
Min.	1.0	25	110	11.9	95	2.8	7.3	92	70	146	19	22	0.13		0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-70	1.5	10				1.0	8.2	94							
1-2-70	1.5	10	318	14.1	101	1.2	8.2	93	261	132		91			43
1-3-70	1.5	10				1.1	8.1	97							
1-4-70	2.0	10				1.1	8.1	98							
1-5-70	1.5	10	318	13.9	99	1.0	8.2	96	261	114		91			240
1-6-70	1.5	7	307	13.9	99	1.1	8.1	95	252	130	17	88	0.06		1,100
1-7-70	1.5	5	329	13.6	97	1.3	8.1	96	270	132		94			75
1-8-70	1.0	8	329	13.8	97	1.2	8.1	96	270	132		94			75
1-9-70	1.0	5	318	14.0	98	1.1	8.1	94	261	132		91			240
1-10-70	1.0	140				1.3	8.1	95							
1-11-70	1.0	10				1.2	8.1	94							
1-12-70	1.0	10	318	13.9	98	1.2	8.2	95	261	128		91			43
1-13-70	1.5	10	297	14.2	101	1.0	8.2	94	244	118		85			43
1-14-70	1.0	4	276	14.2	100	1.1	8.2	92	226	120	15	79	0.08		93
1-15-70	1.5	3	307	14.2	101	1.1	8.2	94	252	122		88			23
1-16-70	1.5	3	307	14.0	100	1.1	8.2	94	252	122		88			23
1-17-70	1.0	3				1.0	8.2	97							
1-18-70	1.0	3				1.2	8.2	94							
1-19-70	1.5	3	297	14.3	102	1.2	8.3	93	244	124		85			9
1-20-70	1.0	3	297			1.2	8.3	92	244	122		85			0
1-21-70	1.0	3	286	14.6	103	1.3	8.2	96	235	122	12	82	0.06		15
1-22-70	1.0	3	318	14.3	101	1.3	8.2	96	261	128		91			43
1-23-70	1.0	2	307	14.8	104	1.3	8.3	93	252	122		88			23
1-24-70	1.0	2				1.5	8.3	98							
1-25-70	1.0	2				1.7	8.1	100							
1-26-70	1.0	3	329	13.8	97	1.8	8.2	98	270	134		94			23
1-27-70	1.0	3	339	14.0	98	1.7	8.2	98	278	134	17	97	0.06		9
1-28-70	1.0	3	318	14.2	100	1.7	8.2	97	261	136		91			9

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky -B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-29-70	1.5	3	329	14.3	102	1.4	8.3	95	270	126		94			15
1-30-70	1.5	3	318	14.2	101	1.6	8.3	97	261	130		91			43
1-31-70	2.0	5				1.5	8.3	101							
Jan. Avg.	1.3	10	312	14.1	101	1.3	8.2	96	256	127	15	89	0.07		104
Max.	2.0	140	339	14.8	104	1.8	8.3	101	278	136	17	97	0.08		1,100
Min.	1.0	2	276	13.6	97	1.0	8.1	92	226	114	12	79	0.06		0
2-1-70	2.0	5				1.5	8.2	99							
2-2-70	1.5	3	318	14.7	105	1.5	8.3	95	261	130					150
2-3-70	1.0	4	500	13.7	96	1.9	8.2	98	426	184			0.12		1,100
2-4-70	1.0	2	318	14.8	104	1.6	8.3	95	261	130					7
2-5-70	1.0	3	329	14.8	104	1.5	8.2	96	270	132		94			1,100
2-6-70	1.5	3	339	14.7	105	1.7	8.2	101	278	140		97			23
2-7-70	1.0	5				1.6	8.2	100							
2-8-70	1.5	5				1.5	8.1	100							
2-9-70	1.5	6	360	14.7	105	1.4	8.3	96	296	138		103			150
2-10-70	1.5	3	371	14.4	103	1.6	8.3	102	305	156		106			460
2-11-70	1.5	3	329			1.9	8.2	102	270	150		94			460
2-12-70	1.5	5				1.9	8.1	106							
2-13-70	1.0	3	421	14.0	98	2.0	8.2	111	357	178		124			1,100
2-14-70	1.0	3				1.9	8.2	110							
2-15-70	1.0	2				1.6	8.2	108							
2-16-70	1.0	2	360	14.9	105	1.6	8.4	100	296	150		103			23
2-17-70	1.5	2	410	14.3	102	1.5	8.3	108	348	168	41	121	0.06		150
2-18-70	1.5	2	399	14.7	105	1.6	8.4	101	339	160		118			15
2-19-70	1.5	5	329	14.6	104	1.3	8.3	103	270	156		94			150
2-20-70	1.0	3	307	15.0	106	1.6	8.5	93	252	126		88			53
2-21-70	1.0	3				1.5	8.2	99							
2-22-70	1.0	2				1.3	8.3	100							

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-23-70	1.0	2	286			1.7	8.2	95	235			82			93
2-24-70	1.5	5	350	15.3	109	1.5	8.5	98	287	136	21	100	0.06		240
2-25-70	2.0	130	318	14.6	106	1.9	8.5	98	261	138		91			23
2-26-70	1.0	40	329	14.5	102	2.5	8.4	97	270	130		94			240
2-27-70	1.0	15	307	14.7	103	1.8	8.5	95	252	128		88			240
2-28-70	1.0	5				1.2	8.3	96							
Feb. Avg.	1.3	10	352	14.6	104	1.6	8.3	100	290	145	29	100	0.08		304
Max.	2.0	130	500	15.3	109	2.5	8.5	111	426	184	41	124	0.12		1,100
Min.	1.0	2	286	13.7	96	1.2	8.1	93	235	126	21	82	0.06		7
3-1-70	1.5	5				2.3	8.4	98							
3-2-70	1.5	5	318	15.1	108	2.1	8.5	92	261	116		91			9
3-3-70	1.0	35	297	14.9	105	1.9	8.5	91	244	116	13	85	0.31		11
3-4-70	1.5	10	307	15.0	107	1.8	8.4	91	252	118		88			240
3-5-70	1.5	5				1.7	8.3	90							21
3-6-70	1.5	10				2.0	8.2	92							15
3-7-70	1.5	10				1.7	8.2	91							
3-8-70	1.5	10				1.6	8.3	91							
3-9-70	1.5	15	371			1.9	8.6	95	305	152		106	0.06		240
3-10-70	1.5	10	329	15.6	111	2.0	8.7	93	270	150	31	94	0.06		36
3-11-70	1.5	10	329	15.4	110	1.5	8.8	92	270	138		94			240
3-12-70	1.5	10	350	16.4	117	1.6	8.9	95	287	150		100			210
3-13-70	1.5	5	339	15 8	113	1.9	8.5	95	278	148		97			93
3-14-70	1.5	4				1.8	8.8	94							
3-15-70	1.5	6				1.8	8.8	98							
3-16-70	1.0	9	339	17.2	121	2.0	9.1	92	278	140		97			9
3-17-70	1.5	4	361	16.8	120	2.0	9.2	93	296	138	26	103	0.07		15

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-18-70	1.5	4	318	17.0	121	2.1	9.2	95	261	128		91			15
3-19-70	1.5	5	329	16.8	120	2.0	9.2	92	270	136		94			0
3-20-70	1.5	3	307	15.4	110	1.7	9.0	88	252	128		88			21
3-21-70	1.5	3				1.5	9.0	93							
3-22-70	1.5	5				1.5	9.0	91							
3-23-70	2.0	8	350	14.0	101	1.2	8.8	95	287	124	24	100	0.12	0.0	3
3-24-70	2.0	4	339	14.5	105	1.2	8.9	93	278	122		97			0
3-25-70	2.5	3	307	14.0	103	1.4	9.0	94	252	145		88			11
3-26-70	2.5	60	329	14.1	103	1.4	8.8	93	270	126		94			23
3-27-70	5.0	25	311	14.3	112	1.9	8.5	96	261	130		91			
3-28-70	4.0	25				1.9	8.7	98							
3-29-70	2.5	150				2.1	8.8	96							
3-30-70	3.0	110	311			2.2	8.3	97	260	136		90			93
3-31-70	3.0	65	276	13.5	100	1.6	8.3	96	226	132		79			43
Mar. Avg.	1.9	20	326	15.3	111	1.8	8.7	94	268	134	24	93	0.14	0.0	64
Max.	5.0	150	371	17.2	121	2.3	9.2	98	305	152	31	106	0.31	0.0	240
Min.	1.0	3	276	13.5	100	1.2	8.2	88	226	116	13	79	0.06	0.0	0
4-1-70	3.0	100	297	13.8	102	1.7	8.5	98	244	136	20	85	0.16	0.0	93
4-2-70	3.0	280	265			3.8	8.4	97	218	132		76			93
4-3-70	3.5	160	318	13.5	101	2.3	8.5	104	261	180		91			93
4-4-70	4.0	65				2.4	8.4	103							
4-5-70	4.0	40				2.5	8.4	104							
4-6-70	4.0	30	318	14.0	107	2.7	8.5	101	261	158		91			43
4-7-70	4.0	90	286	13.0	99	2.3	8.5	101	235	140		82			4
4-8-70	4.5	20	282	14.2	110	2.4	8.3	101	235	150	26	82	0.13	0.09	15
4-9-70	5.0	20	276	13.2	103	2.2	8.4	101	226	150		79			7

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky -B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
															460
4-10-70	5.0	30	318			2.6	8.4	102	261	170		91			
4-11-70	5.0	20				2.9	8.3	99							
4-12-70	5.0	40				3.0	8.3	98							150
4-13-70	5.0	180	318	12.5	98	3.7	8.4	104	261	164		91			43
4-14-70	6.0	160	339	12.0	96	2.9	8.2	98	278	152		97			75
4-15-70	6.0	75	297	12.0	96	2.7	8.2	98	244	148	40	85	0.45	0.0	93
4-16-70	7.0	50	329	12.1	99	2.3	8.2	98	270	146		94			15
4-17-70	7.0	30	297	12.1	99	2.5	8.2	98	244	134		85			
4-18-70	7.0	30				2.6	8.2	98							
4-19-70	8.0	190				3.5	8.1	100							150
4-20-70	8.0	150	318	11.6	97	2.8	8.3	98	261	148		91			93
4-21-70	8.0	5	265	11.7	98	2.3	8.2	100	218	122		76			15
4-22-70	8.0	35	350	11.4	96	2.5	8.2	98	287	158	36	100	0.18	0.0	23
4-23-70	9.0	25	329	11.5	99	2.6	8.3	100	270	158		94			23
4-24-70	9.0	50	350	11.7	101	2.2	8.4	100	287	152		100			
4-25-70	10.0	30				2.3	8.4	98							
4-26-70	9.0	30				2.2	8.3	97							9
4-27-70	9.0	10	276	12.2	105	1.7	8.3	91	226	120		79			9
4-28-70	9.0	10	265	11.7	101	1.7	8.5	92	218	122		76			43
4-29-70	9.0	10	276	11.1	95	1.9	8.1	95	226	124	14	79	0.10	0.51	23
4-30-70	10.0	10	286	11.2	98	2.4	8.7	95	235	124		82			
Apr. Avg.	6.3	66	303	12.3	100	2.5	8.3	99	248	145	27	87	0.20	0.12	71
Max.	10.0	280	350	14.2	110	3.8	8.7	104	287	180	40	100	0.45	0.51	460
Min.	3.0	5	265	11.1	96	1.7	8.1	91	218	120	14	76	0.10	0.00	4

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-1-70	10.0	10	297	12.2	107	2.0	8.5	95	244	128					23
5-2-70	11.0	10				1.9	8.3	95							
5-3-70	12.0	20				2.4	8.6	98							
5-4-70	11.0	15	286	12.2	110	2.4	8.8	97	235	128					23
5-5-70	12.0	15	297	12.4	114	2.2	8.9	100	244	134	22		0.12	0.0	0
5-6-70	12.0	120	297	11.5	106	2.9	8.9	101	244	140					9
5-7-70	13.0	40	307	11.2	106	2.6	9.0	101	252	136					9
5-8-70	11.0	15	286	11.5	103	2.3	8.8	99	235	126					9
5-9-70	12.0	10				2.1	8.7	100							
5-10-70	12.0	10				1.9	8.6	100							
5-11-70	11.0	10	265	10.9	98	1.7	8.6	99	218	124					23
5-12-70	11.0	10	276	10.4	93	1.7	8.4	99	226	124					23
5-13-70	11.0	10	276	9.6	86	1.6	8.4	100	226	126					9
5-14-70	13.0	20	286	10.9	103	2.0	8.8	99	235	136	25		0.18	0.0	9
5-15-70	14.0	30	307	10.5	101	2.6	8.8	100	252	140					23
5-16-70	14.0	10				2.3	8.6	105							
5-17-70	15.0	10				2.3	8.7	103							
5-18-70	14.5	15	265	10.1	99	2.2	8.8	97	218	128					20
5-19-70	15.0	20	276	9.3	92	2.2	8.8	97	226	132	23		0.12	0.0	23
5-20-70	16.0	30	297	9.9	100	2.0	8.9	101	244	140					0
5-21-70	16.0	20	286	9.4	94	2.4	8.9	101	235	134					9
5-22-70	16.0	25	318	7.6	76	2.6	8.6	100	261	140					3
5-23-70	18.0	20				2.9	8.6	103							
5-24-70	19.0	25				3.0	8.8	102							
5-25-70	18.0	25	286	8.2	86	3.0	8.7	100	235	136	24		0.13	0.0	9
5-26-70	18.0	30	286	7.4	77	2.9	8.6	99	235	134					23
5-27-70	17.5	20	276	8.3	86	2.7	8.7	97	226	134					23
5-28-70	17.0	15	265	8.8	90	2.6	8.8	94	218	124					3

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-29-70	17.0	30				3.7	8.5	97							
5-30-70	19.0	30				3.0	8.3	100							
5-31-70	18.0	20				3.3	8.3	100							
May Avg.	14.3	22	287	10.1	97	2.4	8.7	99	235	132	24		0.14	0.0	14
Max.	19.0	120	318	12.4	115	3.7	9.0	105	261	140	25		0.18	0.0	23
Min.	10.0	10	265	7.4	76	1.6	8.3	94	218	124	22		0.12	0.0	0
6-1-70	17.0	25	265	6.7	69	2.8	8.1	98	218	124					9
6-2-70	17.0	25	265	6.4	66	3.7	8.1	99	218	124					3
6-3-70	17.0	90	265	7.2	74	3.0	8.1	101	218	126					43
6-4-70	18.0	70	276	7.5	79	3.0	8.3	97	226	136	26		0.62	0.0	93
6-5-70	17.5	50	265	7.9	82	2.9	8.1	95	218	126					23
6-6-70	19.0	20				2.4	8.1	94							
6-7-70	19.0	15				3.1	7.7	96							
6-8-70	18.0	30	265	6.7	70	2.9	7.9	98	218	120					43
6-9-70	19.0	20	265	7.7	82	2.5	8.1	95	218	122					23
6-10-70	18.5	20	254	4.9	52	2.9	7.8	95	209	118	15	19	0.16	0.0	9
6-11-70	18.0	20	265	4.8	50	2.9	7.8	97	218	122					93
6-12-70	20.0	10	265	7.1	77	2.8	8.1	93	218	122					43
6-13-70	20.0	160				3.7	8.0	99							
6-14-70	21.0	190				5.0	8.1	98							
6-15-70	21.0	40	244	6.7	74	3.3	8.1	94	200	114					9
6-16-70	20.5	40	254	4.8	53	3.8	7.7	96	209	120					23
6-17-70	20.0	30	254	4.8	52	3.6	7.9	97	209	118	14	18	0.18	0.0	9
6-18-70	19.5	25	254	6.3	68	3.2	7.9	95	209	118					9
6-19-70	20.0	20	254	7.0	76	3.2	8.0	95	208	116					15
6-20-70	21.0	15				3.7	7.8	99							

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - BI101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-21-70	21.0	40				3.8	7.9	101							
6-22-70	20.0	30	265	7.2	78	3.7	8.0	95	218	128					9
6-23-70	20.0	25	265	5.9	64	3.2	7.8	97	218	124	21	19	0.13	0.0	23
6-24-70	20.0	25	276	6.7	73	3.4	8.0	97	226	126					9
6-25-70	20.0	130	265	7.0	76	4.1	8.0	99	218	126					7
6-26-70	20.0	45	265	7.3	79	3.9	8.0	96	218	126					23
6-27-70	20.0	100				4.0	8.0	97							
6-28-70	20.0	25				3.9	8.0	96							
6-29-70	21.0	30	265	8.3	92	3.4	8.1	97	218	124					3
6-30-70	21.0	30	265	7.7	85	3.0	8.1	97	218	122					15
June Avg.	19.5	45	263	6.7	72	3.4	8.0	97	216	123	19	19	0.27	0.0	24
Max.	21.0	190	276	8.3	92	5.0	8.3	101	226	136	26	19	0.62	0.0	93
Min.	17.0	10	244	4.8	51	2.4	7.7	93	200	114	14	18	0.13	0.0	3
7-1-70	21.0	25	276	6.2	69	3.4	8.0	98	226	118	19	20	0.20	0.0	7
7-2-70	23.0	25	276	8.1	93	3.2	8.0	92	226	120					3
7-3-70	22.0	20				4.1	7.8	97							
7-4-70	22.0	10				4.0	8.0	97							
7-5-70	22.0	10				3.8	8.1	97							
7-6-70	21.5	15	276	6.6	74	4.1	8.1	97	226	126					23
7-7-70	21.5	20	286	4.5	50	3.8	7.9	96	235	120	42	17	0.13	0.0	23
7-8-70	21.0	20	265	5.1	57	3.4	7.9	97	218	114					4
7-9-70	21.0	20	265	5.1	57	3.4	7.9	96	218	116					23
7-10-70	21.0	15	265	3.6	40	3.5	7.8	97	218	116					23
7-11-70	21.0	15		6.2	69	4.1	8.1	97							
7-12-70	21.0	10		4.5	50	3.1	8.0	101							

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - BI101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-13-70	22.0	20	265	4.9	55	3.2	7.9	97	218	118		18			0
7-14-70	21.5	20	276	3.6	40	3.6	7.8	97	226	120					9
7-15-70	21.0	15	276	2.1	23	3.3	7.7	97	226	118	16		0.12	0.0	4
7-16-70	21.0	20	276	3.3	37	3.7	7.7	98	226	118					7
7-17-70	22.0	25	318	5.9	67	3.7	7.9	98	261	134					9
7-18-70	22.5	20				3.5	7.8	100							
7-19-70	24.0	25				3.2	8.1	101							
7-20-70	22.5	10	286	6.7	76	3.6	8.1	97	235	118					93
7-21-70	21.5	25	297	6.8	76	3.5	8.2	99	244	126	30	20	0.08	0.0	23
7-22-70	21.5	10	286	7.2	81	3.3	8.2	97	235	124					23
7-23-70	22.0	10	286	8.6	97	3.0	8.6	96	235	126					9
7-24-70	22.0	20	286	7.0	79	3.2	8.3	97	235	122					23
7-25-70	23.0	10				3.3	8.1	101							
7-26-70	23.0	15				3.8	7.9	99							
7-27-70	22.0	10	297	4.2	47	3.6	7.8	99	244	128					9
7-28-70	21.5	15	286	2.3	26	3.5	7.7	100	235	124	16	21	0.08	0.0	9
7-29-70	21.5	15	276	1.8	20	2.9	7.6	100	226	124					23
7-30-70	21.5	10	276	1.3	15	1.9	7.7	99	226	124					240
7-31-70	21.5	10	297	0.8	9	2.0	7.6	98	244	126					93
July Avg.	21.8	17	282	4.8	56	3.4	7.9	98	231	122	19	19	0.11	0.0	31
Max.	24.0	25	318	8.6	98	4.1	8.6	101	261	134	30	21	0.19	0.0	240
Min.	21.0	8	265	0.8	9	1.9	7.6	92	218	114	12	17	0.08	0.0	0
8-1-70	25.0	10				2.4	7.7	99							
8-2-70	26.5	10				3.0	8.0	99							
8-3-70	24.0	15	297	5.8	68	3.2	8.3	98	244	124					23
8-4-70	23.5	40	286	5.8	67	3.1	8.3	99	235	126					9
8-5-70	23.5	10	276	5.5	64	3.2	8.2	97	226	124	21	21	0.06	0.0	43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-6-70	23.5	10	297	3.8	44	3.2	8.1	99	244	124					23
8-7-70	23.5	10	297	2.9	34	3.7	7.8	99	244	126					240
8-8-70	24.0	10		1.8	21	3.4	8.6	105							
8-9-70	24.0	10		4.8	56	3.2	8.5	102							
8-10-70	23.5	20	286	6.4	74	3.2	8.4	97	235	124					23
8-11-70	23.5	30	276	6.1	71	2.9	8.1	95	226	120	17	24	0.16	0.0	15
8-12-70	24.5	15	297	6.9	81	2.9	8.6	96	244	120					4
8-13-70	24.5	20	297	4.9	58	3.1	8.2	97	244	124					23
8-14-70	25.0	15	297	5.5	65	3.5	8.4	95	244	122					9
8-15-70	25.0	15				4.5	7.8	97							
8-16-70	25.0	20				4.3	7.7	100							
8-17-70	24.0	15	286	3.0	35	2.7	8.0	97	235	120					23
8-18-70	24.0	15	276	1.9	22	3.7	7.7	98	226	124					93
8-19-70	24.5	30	276	6.6	78	2.8	8.4	96	226	122	16	23	0.12	0.0	93
8-20-70	23.5	20	265	1.4	16	4.1	7.6	103	218	122					23
8-21-70	24.5	35	276	6.8	80	2.8	8.4	98	226	120					460
8-22-70	24.5	15				3.5	8.2	98							
8-23-70	24.5	20				3.3	8.3	98							
8-24-70	23.0	25	265	6.5	75	3.2	8.3	95	218	120					23
8-25-70	23.0	20	276	5.7	65	3.6	8.1	97	226	124	20	22	0.12	0.0	9
8-26-70	23.0	20	276	3.7	42	3.9	7.8	98	226	124					9
8-27-70	23.5	15	286	3.7	43	3.0	7.9	97	235	120					4
8-28-70	23.5	20	265	3.0	35	3.3	7.9	95	218	122					9
8-29-70	24.0	20				2.5	8.4	98							
8-30-70	24.5	15				2.6	8.5	98							
8-31-70	24.0	50	276	7.5	88	2.8	8.5	98	226	122					75
Aug. Avg.	24.1	19	282	4.8	58	3.2	8.2	98	232	123	19	23	0.12	0.0	59
Max.	26.5	50	297	7.5	88	4.5	8.6	105	244	126	21	24	0.16	0.0	460
Min.	23.0	5	265	1.4	16	2.4	7.6	95	218	120	16	21	0.06	0.0	4

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - BI101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
9-1-70	23.5	20	276	7.0	81	3.2	8.4	96	226	128					460
9-2-70	23.5	20	276	8.1	94	3.0	8.6	97	226	128	20	18	0.10	0.0	21
9-3-70	23.5	20	276	8.0	93	3.1	8.7	97	226	124					23
9-4-70	23.5	25	276	7.4	86	2.9	8.6	96	226	122					43
9-5-70	23.0	20				2.8	8.5	103							
9-6-70	23.0	15				2.8	8.5	103							
9-7-70	23.0	10				2.7	8.5	103							9
9-8-70	23.0	20	276	6.4	73	2.7	8.3	101	226	122	17	24	0.10	0.0	75
9-9-70	23.0	15	297	6.1	70	2.3	8.2	95	244	124					23
9-10-70	23.0	20	297	7.0	80	2.3	8.4	96	244	126					15
9-11-70	22.5	20	286	7.6	87	2.2	8.4	100	235	124					21
9-12-70	23.0	20				2.4	8.5	100							
9-13-70	22.5	110				3.0	8.4	100							
9-14-70	21.5	380	286	6.8	76	5.5	8.3	97	235	126					93
9-15-70	21.0	80	286	7.0	78	2.9	8.2	100	235	128	20	23	0.60	0.0	93
9-16-70	21.0	40	286	6.1	68	2.7	8.1	95	235	124					23
9-17-70	21.0	40	276	7.7	85	2.5	8.3	92	226	120					75
9-18-70	21.0	25	276	7.5	83	2.4	8.3	94	226	122					23
9-19-70	21.0	20				2.7	8.3	93							
9-20-70	21.0	30				2.8	8.3	93							
9-21-70	21.0	25	276	7.2	80	2.6	8.2	95	226	122					43
9-22-70	21.5	20	286	5.6	63	1.4	8.0	97	235	122	17	14	0.14	0.0	21
9-23-70	21.5	20	286	7.1	79	2.3	8.2	95	235	122					15
9-24-70	22.0	40	291	6.1	69	2.4	8.2	93	244	120					
9-25-70	23.0	70	265	6.7	77	2.3	8.2	95	218	122					
9-26-70	23.0	20				2.4	8.2	97							
9-27-70	21.5	10				2.3	8.2	95							
9-28-70	20.5	25	276	7.1	78	2.8	8.1	94	226	120					93

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
															43
9-29-70	19.0	30	265	7.6	81	2.8	8.1	90	218	116					
9-30-70	19.0	25	244	7.6	81	2.8	8.1	90	200	116	18	15	0.10	0.0	23
Sept. Avg.	22.0	40	279	7.8	79	2.7	8.3	96	229	123	18	19	0.21	0.0	82
Max.	23.5	380	297	8.1	95	5.5	8.7	103	244	128	20	24	0.60	0.0	460
Min.	19.0	10	244	5.6	64	1.4	8.0	99	200	116	17	14	0.10	0.0	9
															93
10-1-70	18.5	45	265	8.4	89	2.7	8.2	91	218	116					93
10-2-70	18.0	30	244	8.0	84	2.6	8.3	91	200	110					
10-3-70	18.0	15				2.4	8.2	93							
10-4-70	17.0	15				2.4	8.3	92							
10-5-70	17.5	15	233	8.1	84	2.1	8.3	90	191	108		14			43
10-6-70	17.0	20	254	8.9	92	2.0	8.3	91	209	118					39
10-7-70	17.0	15	254	8.6	89	2.0	8.3	93	209	120	15		0.12	0.0	23
10-8-70	17.0	15	265	8.7	90	1.9	8.3	95	218	120					93
10-9-70	17.5	20	265	8.8	91	1.8	8.3	94	218	120					93
10-10-70	18.0	20				1.9	8.3	98							
10-11-70	18.0	30				1.7	8.3	99							
10-12-70	17.0	30	265	9.1	94	1.9	8.5	96	218	120		23			39
10-13-70	17.5	30	276			1.9	8.3	96	226	124	18		0.15	0.0	93
10-14-70	17.0	30	265	8.3	85	2.2	8.3	96	218	124					240
10-15-70	16.5	210	265	8.6	88	2.7	8.3	95	218	126					460
10-16-70	15.0	90	244	8.9	88	2.3	8.3	95	200	118					150
10-17-70	15.0	40				1.8	8.2	96							
10-18-70	14.5	30				1.7	8.4	92							
10-19-70	13.5	25	254	10.3	99	1.6	8.4	93	209	112		16			93
10-20-70	14.5	35	265	10.1	99	1.7	8.5	94	218	118					75
10-21-70	15.0	10	232	9.9	98	1.7	8.4	93	191	116					240

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
10-22-70	14.0	20	254	9.7	94	1.7	8.4	94	209	116	15		0.10	0.0	43
10-23-70	14.0	20	265	9.9	96	1.6	8.4	94	218	118					23
10-24-70	15.0	10				1.5	8.3	95							
10-25-70	15.0	75				1.7	8.4	96							
10-26-70	15.0	85	276	10.0	99	2.2	8.4	97	226	122		15			75
10-27-70	14.5	40	254	9.4	92	1.6	8.4	95	209	120					240
10-28-70	14.0	60	254	9.4	91	1.9	8.4	94	209	122	13		0.42	0.0	23
10-29-70	14.0	40	265	9.6	93	1.8	8.2	96	218	120					23
10-30-70	14.0	25	244	9.2	89	1.8	8.2	97	200	116					23
10-31-70	14.0	15				1.8	8.2	97							
Oct. Avg.	15.9	37	257	9.1	92	2.0	8.3	94	211	118	15	17	0.20	0.0	109
Max.	18.5	210	276	10.3	99	2.7	8.5	99	226	126	18	23	0.42	0.0	460
Min.	13.5	10	232	8.0	84	1.5	8.2	90	191	108	13	14	0.10	0.0	23
11-1-70	14.0	10				2.0	8.3	96							
11-2-70	13.5	50	254	9.9	95	1.8	8.5	95	209	120					
11-3-70	13.5	20	254	9.8	94	2.0	8.3	96	209	122					64
11-4-70	13.0	15	254	9.5	90	1.8	8.3	97	209	120	15	15	0.12	0.0	93
11-5-70	12.5	15	254	9.9	93	1.7	8.4	96	209	122					9
11-6-70	12.0	10	233	9.8	90	1.4	8.3	91	191	110					43
11-7-70	11.5	10				1.2	8.3	94							4
11-8-70	11.5	15				1.4	8.3	94							
11-9-70	11.0	15	244	10.8	97	1.2	8.5	91	200	114					
11-10-70	11.5	10	254	10.9	99	1.3	8.5	91	209	114	16		0.12	0.0	39
11-11-70	12.0	20				1.3	8.3	92							460
11-12-70	11.5	10	233	10.9	99	1.6	8.6	92	191	112					
11-13-70	11.0	50	233	10.7	97	1.4	8.4	95	191	112		11			43
															23

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
11-14-70	11.0	210				2.5	8.4	96							
11-15-70	10.0	450				4.7	8.1	97							
11-16-70	8.5	100	265	11.1	95	1.8	8.4	97	218	120					93
11-17-70	8.0	60	265	11.2	94	1.2	8.3	97	218	122	16	18	0.29	0.0	43
11-18-70	8.5	50	254	11.6	99	1.3	8.3	95	209	118					9
11-19-70	8.5	40	265	11.4	97	1.3	8.3	92	218	118					460
11-20-70	8.5	50	244	10.9	93	1.2	8.4	95	200	110					43
11-21-70	9.5	20				1.3	8.2	94							
11-22-70	9.5	15				1.1	8.2	92							
11-23-70	7.0	35	233	11.8	97	1.0	8.4	95	191	112					240
11-24-70	6.5	30	233	12.0	98	1.0	8.4	93	191	114	14		0.22	0.0	93
11-25-70	5.0	25	244	12.2	96	0.9	8.4	92	200	118		11			240
11-26-70	6.0	20				1.1	8.3	91							
11-27-70	6.0	20	254	11.8	95	1.0	8.3	93	209	110					9
11-28-70	6.0	50				1.3	8.3	93							
11-29-70	6.0	35				1.3	8.3	96							
11-30-70	5.5	30	265	12.1	96	1.2	8.4	93	218	120		8			43
Nov. Avg.	9.6	50	249	11.0	96	1.5	8.3	94	205	116	15	13	0.19	0.0	108
Max.	14.0	450	265	12.2	101	4.7	8.6	97	218	122	16	18	0.29	0.0	460
Min.	5.0	10	233	9.5	90	0.9	8.1	91	191	110	14	8	0.12	0.0	4
12-1-70	6.0	25	265	12.2	98	1.0	8.5	94	218	120					43
12-2-70	6.5	20	254	12.2	99	1.0	8.4	93	209	114	19		0.11	0.0	93
12-3-70	6.5	20	265	11.9	97	0.9	8.4	93	217	118					9
12-4-70	6.0	135	265	12.5	101	1.3	8.3	94	218	114					43
12-5-70	6.0	35				1.3	8.2	97							
12-6-70	5.0	70				1.2	8.2	99							

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
12-7-70	3.5	75	276	12.6	95	1.2	8.5	98	226	124		18		0.0	460
12-8-70	3.0	60	286	12.6	94	1.2	8.4	97	235	122	17		0.27		460
12-9-70	4.0	40	286	13.1	100	1.1	8.3	96	235	124					75
12-10-70	3.5	40	276	13.1	99	1.1	8.4	95	226	122					93
12-11-70	3.5	135	286	13.0	98	1.2	8.3	98	235	122					39
12-12-70	4.0	800				6.3	8.0	97							
12-13-70	3.5	260				2.5	8.1	97							
12-14-70	3.0	95	276	13.0	97	1.2	8.2	96	226	124					
12-15-70	3.0	75	244	13.2	98	1.3	8.2	96	200	120	14		0.24		150
12-16-70	3.0	110	254	12.8	95	1.2	8.2	96	209	124		11		0.0	93
12-17-70	3.0	100	265	12.8	95	1.1	8.2	96	218	128					93
12-18-70	3.0	60	265	13.3	99	1.1	8.4	96	218	134					93
12-19-70	3.5	35				1.4	8.3	95							150
12-20-70	3.0	25				1.3	8.2	100							
12-21-70	2.5	145	286	13.2	97	1.7	8.2	98	235	138					
12-22-70	2.0	300	276	13.2	96	2.8	8.3	99	226	140	21	20	0.82	0.0	93
12-23-70	2.0	95	307	12.0	87	1.8	8.4	98	252	136					460
12-24-70	2.0	75	265	11.2	81	1.7	8.4	97	218	130					93
12-25-70	2.0	55				1.6	8.1	98							460
12-26-70	1.0	50				1.4	8.3	96							
12-27-70	1.0	40				1.6	8.4	95							
12-28-70	1.0	40	265	13.6	96	1.7	8.4	97	218	124					
12-29-70	1.0	35	265	13.4	95	1.4	8.4	95	218	122					43
12-30-70	1.0	30	265	13.2	93	1.5	8.4	97	218	124	12	18	0.12	0.0	9
12-31-70	1.0	30	254	13.4	95	1.5	8.4	96	209	126					23
															3
Dec. Avg.	3.2	100	270	12.8	96	1.6	8.3	96	222	125	17	17	0.31	0.0	140
Max.	6.5	800	307	13.6	100	6.3	8.5	100	252	140	21	20	0.82	0.0	460
Min.	1.0	20	244	11.2	81	0.9	8.0	93	200	114	12	11	0.11	0.0	3

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-2-70	1.0	4	311	14.0	98	2.6		99	261	138					28
1-5-70	1.0	4	331	14.0	98	2.4		100	278	112	22	22	0.00	0.0	1,100
1-6-70	1.0	4	331	14.0	98	2.4		100	278	160					150
1-7-70	1.0	4	331	13.6	96	2.3		103	278	146					240
1-8-70	1.0	4	331	13.8	97	2.9		102	278	158					460
1-9-70	1.0	4	331	13.6	96	2.9		110	278	168					1,100
1-12-70	1.0	4	311	14.1	99	2.1	8.1	105	261	144	18	19	0.08	0.0	460
1-13-70	1.0	4	311	14.5	102	2.6	8.2	104	261	150					1,100
1-14-70	1.0	3	311	14.1	99	2.4	8.3	104	261	130					240
1-15-70	2.0	4	311	14.3	103	2.4	8.3	117	261	148					1,100
1-19-70	1.0	3	291	14.3	101	2.1	7.8	110	243	124	21	25	0.05	0.0	210
1-20-70	1.0	3	311	14.6	103	3.7	8.3	111	261	144					93
1-21-70	1.0	2	331	14.4	99	3.6	8.1	117	278	166					2,400
1-22-70	1.0	2	311	14.2	100	3.8	8.1	133	261	156					460
1-23-70	1.0	2	331	14.1	99	2.5			278	160					1,100
1-26-70	1.0	3	331	13.9	98	2.3	8.0	109	278	152	33	27	0.05		2,400
1-27-70	2.0	3	331	14.0	101	3.1	7.9	114	278	136					460
1-28-70	2.0	2	331	14.2	103	2.0	7.8	110	278	150					150
1-29-70	3.0	4	331	13.7	102	2.5	7.7	119	278	154					2,400
1-30-70	2.0	50	331	13.5	98	2.9	7.8	102	278	162					1,100
Jan. Avg.	1.3	6	322	14.0	100	2.7	8.0	109	270	148	24	23	0.04	0.0	838
Max.	3.0	50	331	14.6	103	3.8	8.3	133	278	168	33	27	0.08	0.0	2,400
Min.	1.0	2	291	13.5	96	2.0	7.7	99	243	112	18	19	0.00	0.0	28
2-2-70	2.0	25		13.8	100	2.6	7.8	102	169	174	45	23	0.20		2,400
2-3-70	1.0	15	331	14.5	102	2.5	7.8	98	278	136					1,100
2-4-70	1.0	8	410	13.4	94	2.7	8.0	120	348	176					2,400
2-5-70	2.0	45	410	14.0	101	3.1	7.8	107	348	166					1,100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-6-70	2.0	20	410	14.0	101	2.7	7.8	113	348	178					2,400
2-9-70	2.0	8	331	14.4	104	2.5	8.3	120	278	132	70	26	0.08	0.0	2,400
2-10-70	2.0	10	410	14.0	101	2.7	7.8	107	348	150					1,100
2-11-70	2.0	15	331	14.0	101	2.3	7.9	110	278	168					240
2-12-70	2.0	5	410	14.5	105	2.6	7.9	112	348	170					1,100
2-13-70	2.0	7	410	14.5	105	3.2	7.8	110	348	182					460
2-16-70	2.0	2	350	15.0	108	3.3	8.0	110	296	162	40	23	0.05	0.0	240
2-17-70	3.0	3	331	15.2	113	2.9	8.1	116	278	172					93
2-18-70	2.0	2	331	15.6	113	2.2	8.0	102	278	146					210
2-19-70	3.0	5	311	15.7	117	2.1	8.1	115	278	166					460
2-20-70	1.0	5	331	14.6	103	2.2	8.1	115	278	162					290
2-23-70	2.0	3	331	15.1	109	2.0	8.1	110	278	140	35	25	0.05	0.0	2,400
2-24-70	3.0	4	331	15.5	115	2.2	8.1	113	278	168					93
2-25-70	3.0	3	331	15.3	114	2.0	8.3	113	278	152					93
2-26-70	3.0	10	331	13.3	99	2.5	7.9	111	278	136					240
2-27-70	2.0	20	331	14.3	103	2.5	7.9	109	278	150					460
Feb. Avg.	2.1	11	356	14.5	105	2.5	8.0	111	294	159	48	24	0.09	0.0	964
Max.	3.0	45	410	15.7	117	3.3	8.3	120	348	182	70	26	0.20	0.0	2,400
Min.	1.0	2	311	13.3	94	2.0	7.8	98	169	132	35	23	0.05	0.0	93
3-2-70	2.0	7	311	15.5	112	2.7	8.0	106	261	136	21	23	0.05	0.0	43
3-3-70	3.0	15	331	14.9	111	2.8	7.9	111	278	128					460
3-4-70	4.0	10	311	14.2	108	2.9	8.0	109	261	132					460
3-5-70	3.0	8	331	15.0	111	3.2	8.0	112	278	146					210
3-6-70	3.0	7	311	15.2	113	2.6	8.0	107	261	156					240
3-9-70	3.0	6	291	15.8	117	2.6	8.2	98	243	126	23	24	0.05		240
3-10-70	3.0	5	311	16.8	125	3.0	8.4	110	261	128					43
3-11-70	3.0	5	311	16.4	122	2.4	8.2	100	261	130					240
3-12-70	3.0	5	311	16.5	123	2.8	8.3	103	261	134					240

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1264

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-13-70	3.0	7	311	16.3	121	2.3	8.1	108	261	146					1,100
3-16-70	2.0	4	311	16.2	117	2.0	8.1	92	261	146		24	0.03		1,100
3-17-70	2.0	4					8.1	109		140					43
3-18-70	3.0	3	311	16.0	119	2.3	8.1	95	261	136					210
3-19-70	2.0	5	311			2.8	8.4	105	261	124					150
3-20-70	2.0	4	311			2.7	8.6	108	261	136					93
3-23-70	3.0	30	311	14.6	108	2.2	8.1	99	261	138	38	23	0.03	0.0	2,400
3-24-70	4.0	4	311	14.4	110	2.8	8.2	104	261	122					4
3-25-70	4.0	5	311	14.0	107	2.2	8.2	103	261	144					460
3-26-70	4.0	10	331	13.9	106	2.5	8.1	95	278	142					1,100
3-27-70	4.0	10	311	14.2	108	2.8	8.1	96	261	140					150
3-30-70	3.0	30	331	13.8	102		8.0	96	278	134	24	28			150
3-31-70	4.0	20	331	13.5	103	2.1	8.1	93	278	146					460
Mar. Avg.	3.5	9	315	15.1	113	2.6	8.1	103	204	137	27	24	0.03	0.0	436
Max.	4.0	30	331	16.8	125	3.2	8.6	112	278	156	28	28	0.05	0.0	2,400
Min.	2.0	3	291	13.5	102	2.0	7.9	92	183	122	21	23	0.02	0.0	4
4-1-70	4.0	15	331	13.6	104	2.1	8.3	96	278	144					93
4-2-70	4.0	50	350	13.0	99	2.6	8.0	94	296	144					460
4-3-70	4.0	50	311	13.0	99	2.4	8.1	94	261	152					150
4-6-70	4.0	8	350	13.8	105	2.7	8.2	97	296	142	39	20	0.05		93
4-7-70	6.0	30	390	12.5	100	2.8	8.0	100	327	148					150
4-8-70	5.0	25	390	12.0	94	2.6	8.1	100	327	138					240
4-10-70	7.0	15	331	12.9	106	3.2	8.0	94	278	160					240
4-13-70	6.0	20	350	12.5	100	2.7	8.1	98	296	150	45	26	0.18		460
4-14-70	8.0	45	311	12.1	102	2.7	8.0	96	261	154					240
4-16-70	9.0	20	311	12.1	104	2.9	8.3	97	261	152					460

TABLE 7 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	$ Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
4-17-70	10.0	15	341	12.3	108	2.9	8.2	100	261	162					240
4-20-70	9.0	45		12.2	105	2.4	8.2	96		140	58	26	0.50	0.0	240
4-21-70	8.0	20	390	11.4	96	2.1	7.9	98	327	148					460
4-22-70	9.0	15	350	11.6	100	2.7	8.1	98	296	146					150
4-23-70	10.5	20	350	11.1	99	1.7	8.0	100	296	158					1,100
4-24-70	9.0	10	350	12.5	107	2.7	8.1	97	296	138					240
4-27-70	12.0	7	331	11.6	107	2.4	8.2	99	278	156					21
4-28-70	14.0	9	311	12.3	118	2.4	8.2	98	261	144					93
4-30-70	14.0	8	311	11.2	107	2.5	8.3	98	261	152					43
Apr. Avg.	8.0	22	341	12.3	103	2.6	8.1	97	287	149	47	24	0.24	0.0	272
Max.	14.0	50	390	13.8	118	3.2	8.3	100	327	162	58	26	0.50	0.0	1,100
Min.	4.0	7	311	11.1	94	1.7	7.9	94	261	138	39	20	0.05	0.0	21
5-1-70	15.0	10	331	12.0	118	3.2	8.3	98	278	146					93
5-4-70	15.0	7	331	13.1	129	2.5	8.3	96	278	144		23	0.12		93
5-5-70	13.0	15	331	13.2	125	2.8	8.6	95	278	150					93
5-6-70	13.0	15	311	11.2	106	2.7	8.5	100	261	156					460
5-7-70	13.0	25	311	11.5	109	2.9	8.5	99	261	170					43
5-8-70	14.0	15	331	12.0	116	2.4	8.5	95	278	148					43
5-11-70	14.0	4	311	12.8	124	2.6	8.2	94	261	146	21	28		0.0	23
5-12-70	16.0	6	311	10.5	106			99	261	156					9
5-13-70	16.0	4	291	11.0	111	2.6		103	243						23
5-14-70	15.0	55	331	10.3	101	3.0		97	278	152					2,400
5-15-70	16.0	35	311	10.3	104	2.9		98	261	150					1,100
5-18-70	15.0	5	311	10.5	103	2.8		92	261	140	25	23	0.13	0.0	43
5-19-70	17.0	7	311	10.9	112	2.8	7.9	99	261	148					43
5-20-70	17.0	5	311	9.5	97	3.3	8.0	99	261	140					43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-21-70	18.0	7	331	9.9	103	2.7	8.2	98	278	148					23
5-22-70	19.0	5	311	9.7	103	2.5	8.2	97	261	154					43
5-25-70	17.0	6	311	7.7	79	2.8	7.9	100	261	150		25	0.09		23
5-26-70	19.0	9	311	7.5	80	3.7	8.0	92	261	150					15
5-27-70	18.0	9	311	7.1	74	3.4	7.7	100	261	146					11
5-28-70	19.0	20	311	7.0	74	3.9	7.7	101	261	152					460
5-29-70	19.0	40	311	7.1	75	5.0	7.8	98	261	158					240
May Avg.	16.0	14	316	10.2	102	3.0	8.1	98	265	150	23	25	0.11	0.00	254
Max.	19.0	55	331	13.2	129	5.0	8.6	103	278	170	25	28	0.13	0.00	2,400
Min.	13.0	4	291	7.0	74	2.4	7.7	92	243	140	21	23	0.09	0.00	9
6-1-70		6	311	6.3		3.6	7.7	97	261	148	29	25	0.13		150
6-2-70	19.0	9	311	5.8	62	3.6	7.6	94	261	142					460
6-3-70	18.0	9	291	6.6	69	4.0	7.6	100	243	146					23
6-4-70	18.0	25	311	7.0	73	4.1	7.5	101	261	138					1,100
6-5-70	18.0	40	311	8.2	86	3.8	7.5	96	261	136					240
6-8-70	19.0	15	291	8.1	87	3.9	7.6	94	243	124	24	24	0.10	0.0	29
6-9-70	22.0	6	291	8.6	97	3.5	7.7	98	243	140					23
6-10-70	19.0	4	291	7.8	83	4.5	7.8	95	243	134					43
6-11-70	21.0	6	291	6.4	71	4.7	7.6	95	243	152					4
6-12-70	21.0	6	291	6.7	74	4.2	7.5	92	243	144					9
6-15-70	21.0	8	291	5.6	62	4.4	7.5	100	243	138	25	24	0.05		240
6-16-70	21.0	9	291	5.2	58	4.4	7.5	97	243	136					9
6-18-70	22.0	7	291	4.8	54	4.3	7.5	95	243	158					9
6-19-70	21.0	15	272	6.8	75	4.4	7.6	93	225	140					93
6-22-70	20.0	8	291	6.8	74	3.5	7.7	100	243	142	24	22	0.09		43
6-23-70	21.0	9	291	8.0	89	4.3	7.7	98	243	148					150
6-24-70	21.0	10	291	6.0	67	3.8	7.8	104	243	150					21

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-25-70	21.0	25	291	7.2	80	5.1	7.6	92	243	152					150
6-26-70	21.0	30	291	7.4	82	3.7	7.7	96	243	150					460
6-29-70	20.0	9	272	5.9	64	3.7	7.7	97	225	146	25	24	0.18	0.0	21
6-30-70	23.0	15	291	8.8	101	3.6	7.8	97	243	152					
June Avg.	19.4	13	293	6.9	76	4.1	7.6	97	245	144	25	24	0.11	0.0	164
Max.	23.0	40	311	8.8	101	5.1	7.8	104	261	158	29	25	0.18	0.0	1,100
Min.	18.0	4	272	4.8	54	3.5	7.5	92	225	124	24	22	0.05	0.0	4
7-1-70	22.0	7	311	7.1	80	3.6	7.7	100	261	132					75
7-2-70	25.0	5	291	10.7	127	3.4	8.2	92	243	140					21
7-3-70	25.0	6	291	10.0	119	5.2	8.1	96	243	146					11
7-6-70	23.0	4	291	7.0	80	4.1	8.2	98	243	138	30	25	0.10		11
7-7-70	23.0	7	291	4.5	52	4.2	7.5	92	243	140					93
7-8-70	22.0	3	311	5.5	62	4.5	7.8	100	261	140					150
7-9-70	22.0	10	390	4.2	47	2.6	7.9	93	327	156					240
7-10-70	22.0	4	272	2.5	28	4.7	7.9	97	225	148					93
7-13-70	23.0	4	291	6.0	69	3.9	7.9	97	243	136	20	23	0.09	0.0	43
7-14-70	23.0	4	291	3.8	44	3.8	7.7	98	243	146					43
7-15-70	23.0	3	311	3.8	44	4.7	8.1	100	261	164					43
7-16-70	24.0	10	291	6.5	76	4.4	7.8	94	243	148					150
7-17-70	23.0	4	291	6.0	69	4.2	7.9	99	243	148					240
7-20-70	23.0	7	291	5.8	67	4.8	8.0	106	243	146	23	24	0.11	0.0	21
7-21-70	22.0	5	291	8.3	94	5.3	8.2	95	243	152					460
7-22-70	22.0	3	291	8.2	93	4.4	8.2	98	243	148					1,100
7-24-70	22.0	3	291	6.7	76	3.7	8.2	103	243	144					21
7-27-70	23.0	2	291	4.4	51		8.2	97	243	168	29	24	0.08		93
7-28-70	24.0	2	311	1.3	15	4.5	7.9	104	261	148					43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-29-70	23.0	2	331	0.2	2	3.8	7.8	98	271	126					93
7-30-70	23.0	4	311	0.4	5	4.1	7.7	103	261	158					39
7-31-70	23.0	3	291	0.3	3	4.1	7.7	104	243	144					93
July Avg.	23.0	5	301	5.1	60	4.2	7.9	98	251	146	26	24	0.10	0.0	144
Max.	25.0	10	390	10.7	127	5.3	8.2	106	327	168	30	25	0.11	0.0	1,100
Min.	22.0	2	272	0.2	2	2.6	7.5	92	225	126	20	23	0.08	0.0	11
8-3-70	25.0	5	291	4.3	51	4.0	8.3	93	243	120	20	20	0.10	0.0	15
8-4-70	25.0	8	311	8.5	101	4.6	8.5	92	261	144					7
8-5-70	24.0	10	291	4.4	51	4.4	8.3	98	140	144					15
8-6-70	25.0	8	311	4.8	57	5.1	8.0	96	261	132					4
8-7-70	25.0	6	291	6.8	81	4.7	8.3	93	243	150					3
8-10-70	25.0	7	291	3.0	36	4.7	7.6	92	243	148					20
8-11-70	25.0	9	291	5.7	68	4.7	7.8	95	243	152					43
8-13-70	26.0	5	291	7.8	94	4.4	8.2	92	243	138					1,100
8-14-70	26.0	4	272	6.7	81	4.2	8.0	98	225	148					240
8-15-70	26.0	4	291	5.8	70	4.2	8.0	98	243	138					150
8-17-70	26.0	5	291	6.9	83	4.3		91	243	146					21
8-18-70	26.0	6	311	4.9	59	4.5	7.7	98	261	144					93
8-19-70	26.0	5	291	3.6	43	4.7	7.7	99	243	148					23
8-20-70	26.0	8	291	4.6	56	4.7	7.8	95	243	142					15
8-21-70	25.0	7	291	7.4	88	4.2	8.0	94	243	142					1,100
8-24-70	24.0	5	272	8.8	103	4.9	8.3	97	225	134					93
8-25-70	25.0	4	272	8.9	106	5.0	8.2	96	225	144					15
8-26-70	25.0	5	272	6.2	74	4.2	8.0	104	225	144					240
8-27-70	26.0	4	272	8.2	99	3.7	8.2	94	225	146					43
8-28-70	26.0	4	272	7.0	85	3.9	8.0	96	225	142					36
8-31-70	24.0	5	311	6.7	78	4.3	8.0	93	261	138	22	27	0.10	0.0	240

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
Aug. Avg.	25.3	6	289	6.2	75	4.4	8.0	95	236	142	21	24	0.10	0.0	167
Max.	26.0	10	311	8.9	106	5.1	8.5	104	261	152	22	27	0.10	0.0	1,100
Min.	24.0	4	272	3.0	36	3.7	7.6	91	140	120	20	20	0.10	0.0	3
9-1-70	24.0	6	291	8.6	100	4.2	8.1	94	243	132					150
9-2-70	23.0	5	311	8.2	94	3.8	7.9	100	261	142					460
9-3-70	24.0	6	311	8.0	93	3.7	8.0	91	261	138					9
9-4-70	24.0	7	311	7.6	89	3.7	8.0	98	261	138					28
9-7-70	24.0	8	311	5.2	61	3.7	7.6	94	261	152					93
9-8-70	24.0	9	311	5.7	67	4.3	7.6	92	261	152					460
9-9-70	24.0	8	311	4.5	53	4.0	7.5	100	261	120					150
9-10-70	24.0	6	311	7.6	89	3.8	7.7	94	261	138					460
9-11-70	23.0	8	291	9.0	103	3.8	7.9	96	243	136					1,100
9-14-70	21.0	20	291	7.5	83	3.4	7.8	100	243	132	21	29	0.20	0.0	240
9-15-70	22.0	25	291	7.5	85	3.9	7.6	101	243	148					460
9-17-70	22.0	15	291	7.4	84	3.6	7.6	100	243	136					240
9-18-70	22.0	15	291	7.6	86	3.6	7.6	95	243	140					1,100
9-21-70	22.0	5	311	7.7	87	3.7	7.9	101	261		20	30	0.08	0.0	460
9-22-70	23.0	6	311	8.2	94	4.0	7.7	98	261						93
9-23-70	23.0	5	311	7.5	86	3.5	7.8	98	261						21
9-24-70	23.0	15	311	7.6	87	3.7	7.7	99	261	136					460
9-25-70	23.0	8	291	6.8	78	3.7	7.8	95	243	138					460
9-28-70	20.0	4	291	8.0	87	3.3	7.9	95	243	148	18	26	0.10	0.0	240
9-29-70	22.0	10	291	9.1	103	3.9	7.8	96	243	154					290
9-30-70	22.0	5	291	8.6	97	3.1	7.7	99	243	144					150
Sept. Avg.	22.8	9	301	7.5	86	3.7	7.8	97	252	140	20	28	0.13	0.0	339
Max.	24.0	25	311	9.1	103	4.3	8.1	101	261	154	21	30	0.20	0.0	1,100
Min.	20.0	4	291	4.5	53	3.1	7.5	91	243	120	18	26	0.08	0.0	9

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-1-70	23.0	15	291	8.8	101	4.4	7.6	93	243	136					2,400
10-2-70	20.0	7	272	9.7	106	4.1	7.7	95	225	136					23
10-4-70	19.0	5	291	9.1	97	3.5	7.8	95	243	132	20	24	0.10	0.0	460
10-6-70	18.0	9	291	8.8	92	4.5	7.8	98	243	140					460
10-7-70	18.0	9	291	7.9	83	4.3	7.7	95	243	146					150
10-8-70	18.0	2	291	8.8	92	3.6	7.7	92	243	136					150
10-9-70	19.0	8	291	9.5	102	3.9	7.8	92	243	136					17
10-12-70	19.0	7	291	9.2	98	4.1	7.8	101	243	134	19	30	0.05	0.0	460
10-13-70	18.0	10	272	8.9	93	3.4	7.6	92	225	134					150
10-14-70	19.0	8	291	8.6	92	3.8	7.8	94	243	128					93
10-15-70	17.0	20	291	9.3	96	4.3	7.7	96	243	132					2,400
10-16-70	15.0	25	291	9.8	97	4.2	7.7	100	243	130					1,100
10-19-70	14.0	6	311	10.1	98	3.3	7.9	97	261	134	24	21	0.04	0.0	1,100
10-20-70	15.0	15	291	10.5	104	3,5	7.8	98	243	142					240
10-21-70	15.0	8	291	9.5	94	3.4	7.7	100	243	132					150
10-22-70	15.0	9	291	9.4	93	2.9	7.7	96	243	144					75
10-23-70	15.0	8	272	10.2	101	3.1	7.8	97	225	130					1,100
10-26-70	15.0	10	291	10.1	100	2.3	7.6	101	243	124	24	25	0.08	0.0	460
10-27-70	16.0	15	291	10.0	101	2.6	7.5	98	243	140					150
10-28-70	15.0	15	291	10.0	99	2.8	7.7	97	243	132					93
10-29-70	15.0	10	291	9.5	94	3.1	7.7	94	243	136					93
10-30-70	15.0	10	291	9.6	95	3.0	7.7	97	243	136					43
Oct. Avg.	17.0	10	289	9.4	96	3.5	7.7	96	241	135	22	25	0.07	0.0	517
Max.	23.0	25	311	10.5	105	4.5	7.9	101	261	146	24	30	0.10	0.0	2,400
Min.	14.0	2	272	7.9	83	2.3	7.5	92	225	124	19	21	0.04	0.0	17

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
11-2-70	15.0	4	291	9.6	95	2.9	7.5	100	243	134	28	18	0	0.0	75
11-3-70	14.0	10	291	10.3	100	3.0	7.7	95	243	144					150
11-4-70	13.0	6	272	10.0	95	2.1	7.6	100	225	130					240
11-5-70	12.0	9	272	10.0	92	2.8	7.6	95	225	130					1,100
11-6-70	12.0	6	272	10.1	93	3.3	7.6	94	225	132					93
11-9-70	12.0	4		8.8	81	2.3	7.8	92		130	16	20	0.03	0.0	240
11-10-70	13.0	7	272	10.5	100	2.5	7.7	94	225	134					460
11-11-70	13.0	6	253	10.7	102	2.8	7.6	97	207	134					93
11-12-70	12.0	7	253	10.8	100	2.3	7.6	95	207	140					460
11-13-70	12.0	15	253	10.8	100	2.6	7.8	91	207	136					1,100
11-16-70	9.0	30	272	11.2	97	2.6	7.5	100	225	144	22	19			460
11-17-70	9.0	30	311	10.9	94	2.8	7.5	98	261	134					460
11-18-70	9.0	25	311	11.0	95	2.5	7.5	96	261	136					1,100
11-19-70	8.0	20	311	11.3	95	2.5	7.6	99	261	132					460
11-20-70	9.0	20	291	11.3	98	2.4	7.5	94	243	136					210
11-23-70	15.0	15	253	11.7	116	2.5	7.6	96	207	128	25	20	0.11	0.0	240
11-24-70	6.0	20	272	12.3	99	2.5	7.6	98	225	120					93
11-25-70	6.0	20	272	12.4	100	2.6	7.5	92	225	136					240
11-26-70	8.0	15	311	12.3	104	3.0	7.5	93	261	140					240
11-27-70	8.0	15	291	12.6	106	2.3	7.7	92	243	144					93
11-30-70	8.0	10	262	12.5	105		7.5	94	216	150	21	20	0.10	0.0	460
Nov. Avg.	10.6	14	279	11.0	98	2.6	7.6	95	232	135	22	19	0.06	0.0	384
Max.	15.0	30	311	12.6	116	3.3	7.8	100	261	150	28	20	0.11	0.0	1,100
Min.	6.0	4	253	8.8	81	2.1	7.5	91	207	120	16	18	0.00	0.0	75

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
12-1-70	11.0	15	291	12.5	113	2.9	7.5	94	243	130					1,100
12-2-70	10.0	6	291	12.6	111	2.5	7.7	89	243	138					240
12-3-70	9.0	6	291	12.2	105	2.4	7.6	86	243	128					460
12-4-70	8.0	20	291	12.9	109	3.6	7.7	96	243	136					20
12-7-70	4.0	30	272	13.5	103		7.8	98	225	146	27	23		0.0	29
12-8-70	5.0	20	291	14.1	111	3.5	7.6	98	243	142					1,100
12-9-70	6.0	15	291	13.5	109	3.2	7.6	96	243	136					240
12-10-70	7.0	15	291	13.8	114	3.2	7.7	100	243	138					460
12-11-70	5.0	30	311	13.2	104	3.1	7.7	95	261	146					240
12-14-70	6.0	50	311	13.8	111	3.0	7.4	94	261	138	21	27	0.05	0.0	240
12-15-70	5.0	45	311	13.5	106	2.7	7.5	96	261	140					460
12-16-70	4.0	35	311	13.7	105	3.0	7.5	107	261	142					2,400
12-17-70	5.0	50	311	13.4	105	2.9	7.5	96	261	152					1,100
12-18-70	4.0	45	331	13.6	104	3.2	7.4	99	278	158					210
12-21-70	5.0	20	291	13.2	104	2.4	7.4	99	243	142					1,100
12-22-70	5.0	35	272	13.6	107	3.3	7.5	99	225	134					93
12-23-70	4.0	40	291	13.6	104	2.3	7.7	107	243	150					93
12-24-70	4.0	45	291	15.7	120	2.7	7.7	105	243	156					460
12-28-70	4.0	20	311	14.5	111	2.8	7.4	101	261	128	27	26	0.13	0.0	1,100
12-29-70	3.0	20	311	14.1	105	3.6	7.6	96	261	148					1,100
12-30-70	2.0	15	291	14.5	105	2.3	7.4	100	243	130					460
12-31-70	3.0	25	311	14.4	107	2.9	7.5	97	261	140					150
Dec. Avg.	5.4	27	298	13.6	107	2.9	7.6	98	250	141	26	26	0.13	0.0	584
Max.	11.0	50	331	15.7	120	3.6	7.8	107	278	158	27	27	0.20	0.0	2,400
Min.	2.0	6	272	12.2	103	2.3	7.4	86	225	128	21	23	0.05	0.0	20

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermillion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-70	2.1	10	225	11.1	80	0.7	7.9	95		140					43
1-2-70	0.8	10	250	10.2	71	0.7	7.8	110		158		22			210
1-3-70	1.2	10	240	10.1	71	0.4	7.8	110		160	46		0.46	0.0	150
1-4-70	1.1	10	220	10.0	70	0.5	7.8	103		148					93
1-5-70	1.1	10	240	11.3	80	0.6	7.8	109		162					240
1-6-70	1.3	10	230	11.5	81	0.5	7.8	104		140					43
1-7-70	1.5	10	200	10.8	77	0.7	7.8	103		140					43
1-8-70	1.4	10	205	11.0	78	0.8	7.8	106		138					43
1-9-70	1.6	15	210	11.2	80	0.7	7.9	104		140		23			240
1-10-70	2.0	10	215	11.4	82	0.6	7.9	102		132	32		0.22	0.0	43
1-11-70	2.1	5	215	11.0	80	0.4	7.9	105		138					1,600
1-12-70	2.1	5	225	11.4	83	0.8	7.8	101		136					390
1-13-70	2.5	10	215	11.5	84	0.4	7.8	97		140					240
1-14-70	2.2	10	205	11.2	81	0.8	7.9	97		142					120
1-15-70	2.6	5	200	11.0	81	0.6	7.9	95		140					150
1-16-70	2.5	5	205	11.5	84	0.5	7.8	96				25			1,100
1-17-70	3.0	5	205	11.8	87	0.6	7.9	87		140	28		0.16	0.0	240
1-18-70	2.5	5	250	11.5	84	1.0	7.7	100		144					460
1-19-70	1.9	5	225	11.7	84	0.8	7.8	100		136					93
1-20-70	2.1	5	220	11.5	83	1.0	7.7	100		140					93
1-21-70	1.9	5	230	11.8	85	1.4	7.6	100		142					150
1-22-70	1.8	5	225	11.8	85	1.0	7.8	100		138					23
1-23-70	1.8	5	225	11.7	84	0.8	7.8	100		136		25			23
1-24-70	2.0	5	210	10.9	79	0.7	7.7	104		140	29		0.13	0.0	43
1-25-70	1.6	15	250	10.8	77	1.0	7.8	96		138					93
1-26-70	1.7	5	210	11.4	82	0.8	7.8	95		136					39
1-27-70	1.9	5	225	11.5	83	0.8	7.9	94		140					93

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-28-70	2.5	10	225	11.6	85	0.9	7.8	98		138					150
1-29-70	2.8	5	225	11.4	84	1.1	7.8	100		134					240
1-30-70	2.4	50	230	11.6	85	1.2	8.0	99		134					43
1-31-70	2.1	50	210	11.4	83	0.9	7.9	92		130	31	21	1.00	0.0	93
Jan. Avg.	1.9	10	221	11.2	81	0.8	7.8	100		141	33	23	0.39	0.0	214
Max.	3.0	50	250	11.8	87	1.4	8.0	110		162	46	25	1.00	0.0	1,600
Min.	0.8	5	200	10.0	70	0.4	7.6	87		130	28	21	0.13	0.0	23
2-1-70	2.2	50	215	11.4	83	1.2	8.0	95		132					240
2-2-70	4.0	60	200	11.8	90	0.7	8.0	80		138					240
2-3-70	3.2	70	200	12.2	91	0.6	7.8	86		132					240
2-4-70	2.5	90	215	11.8	86	0.7	7.8	83		138					240
2-5-70	3.5	80	210	11.2	84	1.0	7.6	82		136					4,600
2-6-70	3.0	85	205	11.5	85	0.9	7.8	80		140					11,000
2-7-70	2.3	40	250	11.6	84	1.8	7.2	87		164	78	21	0.95	0.0	460
2-8-70	2.4	40	215	11.3	82	1.2	7.7	89		150					1,100
2-9-70	2.1	45	250	11.5	83	1.1	7.6	92		150					1,100
2-10-70	2.2	40	265	11.8	86	0.9	7.2	90		160					2,400
2-11-70	2.1	90	250	11.6	84	1.5	7.2	89		154					2,400
2-12-70	2.0	55	235	10.6	76	0.8	7.6	88		150					1,100
2-13-70	2.6	35	235	11.2	82	1.6	7.5	93		150		22			2,100
2-14-70	2.3	35	240	11.6	84	1.1	7.5	88		162	66		1.05	0.0	1,500
2-15-70	2.7	25	235	11.0	81	1.1	7.7	86		150					1,100
2-16-70	2.9	35	240	11.2	83	1.0	7.6	90		152					240
2-17-70	2.7	20	230	11.4	84	1.3	7.5	95		144					93
2-18-70	2.5	15	250	11.7	86	0.6	7.5	98		158					2,900
2-19-70	2.6	15	235	11.4	84	1.0	7.4	97		152					240

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-20-70	2.5	20	225	11.6	85	0.9	7.7	99		144		24			240
2-21-70	2.4	25	210	11.5	84	1.1	7.8	94		140	29		0.37	0.0	240
2-22-70	2.8	25	205	11.8	87	0.9	7.8	96		150					460
2-23-70	2.5	20	205	12.5	91	1.0	7.8	98		144					240
2-24-70	2.4	25	200	11.6	85	0.7	8.0	90		142					43
2-25-70	3.5	35	205	12.2	92	0.7	7.8	92		144					240
2-26-70	2.4	40	200	11.5	84	1.0	7.8	90		150					93
2-27-70	1.9	70	230	11.6	83	1.0	8.0	100		142		23			93
2-28-70	1.6	30	225	11.6	83	0.8	8.0	98		130	27		1.35	0.0	23
Feb. Avg.	2.6	43	224	11.5	85	1.0	7.7	91		146	50	23	0.93	0.0	1,249
Max.	4.0	90	265	12.5	92	1.8	8.0	100		164	78	24	1.35	0.0	11,000
Min.	1.6	15	200	10.6	76	0.6	7.2	80		130	27	21	0.37	0.0	23
3-1-70	1.8	30	225	11.5	83	0.9	8.0	100		144					93
3-2-70	1.4	30	225	10.7	76	1.1	8.0	95		138					23
3-3-70	1.4	30	225	10.4	74	1.0	8.0	96		134					23
3-4-70	2.4	30	240	10.1	74	1.1	8.1	101		146					120
3-5-70	4.0	65	225	10.0	76	1.7	8.0	98		152					460
3-6-70	3.4	140	225	10.1	76	1.1	7.9	85		140		21			460
3-7-70	3.2	80	225	10.8	80	1.3	8.1	91		148	33		1.28	0.0	460
3-8-70	4.2	80	225	10.0	76	1.2	8.2	92		146					2,400
3-9-70	2.2	70	220	10.4	75	1.1	8.2	97		126					240
3-10-70	1.9	25	220	10.5	76	1.1	8.2	95		134					43
3-11-70	1.6	25	230	10.4	74	1.3	8.2	98		132					240
3-12-70	1.8	15	230	10.6	76	1.2	8.1	96		130					150
3-13-70	1.7	15	220	10.5	75	1.3	8.1	95		132		25			93
3-14-70	1.6	15	220	10.6	76	1.4	8.0	97		140	65	22	0.38	0.0	460
3-15-70	2.0	15	220	10.6	76	1.8	8.0	92		146					150

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-16-70	2.5	15	210	11.5	84	1.3	8.2	90		148					140
3-17-70	2.4	15	200	11.5	84	1.0	8.2	90		150					43
3-18-70	3.0	15	200	11.8	87	1.6	8.0	94		146					240
3-19-70	1.3	15	225	11.8	84	1.2	8.4	95		132					43
3-20-70	1.4	10	215	11.7	83	1.3	8.4	89		124		22			150
3-21-70	2.5	15	195	10.1	74	1.5	8.3	92		126	28		0.61	0.0	23
3-22-70	2.8	20	205	10.3	76	1.1	8.4	97		134					240
3-23-70	2.4	30	215	10.4	76	1.1	8.3	92		138					43
3-24-70	3.6	25	200	13.0	98	1.6	8.3	91		134					23
3-25-70	2.7	25	205	13.1	96	1.5	8.5	95		134					43
3-26-70	3.3	80	210	12.7	95	1.3	8.5	96		140					93
3-27-70	2.6	80	210	12.0	88	1.1	8.3	86		128		24			93
3-28-70	2.7	35	220	12.3	90	1.5	8.2	91		138	31		0.88	0.0	43
3-29-70	2.4	60	220	12.5	91	1.9	8.0	94		134					43
3-30-70	2.4	70	210	12.6	92	0.7	8.0	96		134					150
3-31-70	2.5	60	215	12.4	91	0.9	8.2	94		136					43
Mar. Avg.	2.4	40	217	11.2	82	1.3	8.2	94		138	39	23	0.79	0.0	222
Max.	4.2	140	240	13.1	98	1.9	8.5	101		152	65	25	1.28	0.0	2,400
Min.	1.3	10	195	10.0	74	0.7	7.9	85		124	28	21	0.38	0.0	23
4-1-70	2.6	40	220	12.6	92	1.0	8.2	96		136					43
4-2-70	2.9	70	215	12.5	93	1.1	8.2	97		134					93
4-3-70	4.0	90	200	13.0	99	1.2	8.2	92		132					150
4-4-70	3.2	100	205	12.5	93	0.6	8.0	90		136	30	25	3.50	0.0	150
4-5-70	4.5	90	200	12.3	95	1.0	8.2	90		132					93
4-6-70	7.0	100	215	12.0	98	0.5	8.0	92		136					2,400
4-7-70	5.5	100	205	12.5	99	0.4	8.0	96		138					460

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermillion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-8-70	4.4	40	200	9.6	74	1.7	7.9	93		140					93
4-9-70	5.6	40	230	11.4	90	1.4	7.9	91		142					43
4-10-70	5.5	50	230	11.6	92	1.4	8.0	93		136					43
4-11-70	5.6	60	240	11.5	91	1.4	8.1	90		142	37		1.22	0.0	93
4-12-70	5.6	50	240	11.6	92	1.5	8.0	92		136					23
4-13-70	5.8	80	240	11.4	91	0.9	7.9	94		146					93
4-14-70	7.2	80	250	9.2	76	1.5	7.9	98		156					43
4-15-70	6.4	70	260	11.2	90	1.5	8.0	95		158					2,400
4-16-70	7.3	45	240	9.7	80	1.1	7.8	96		152					64
4-17-70	7.7	25	230	9.5	79	1.2	7.9	92		144		24			43
4-18-70	8.5	35	240	9.8	83	1.3	7.9	95		142	40		0.67	0.0	93
4-19-70	7.8	50	230	10.0	83	1.3	8.0	97		140					43
4-20-70	8.5	80	230	9.8	83	0.9	8.1	94		136					240
4-21-70	8.8	90	220	11.0	94	1.7	8.1	100		140					93
4-22-70	8.4	70	225	10.5	89	0.7	8.1	98		142					93
4-23-70	8.9	80	225	10.4	89	1.7	8.1	96		144					240
4-24-70	9.9	25	230	11.1	97	1.0	8.1	92		148		24			23
4-25-70	10.2	35	225	11.0	97	1.3	8.0	98		146	40		1.20	0.0	43
4-26-70	10.5	30	225	10.8	96	1.1	8.0	97		140					43
4-27-70	10.0	25	215	10.6	93	0.7	8.1	95		136					93
4-28-70	8.4	40	225	11.0	93	1.0	8.1	93		138					43
4-29-70	10.0	50	215	11.9	105	0.9	8.3	96		136					23
4-30-70	10.2	50	225	12.8	113	1.0	8.4	90		134					23
Apr. Avg.	7.0	60	225	11.2	92	1.1	8.1	94		141	37	24	1.65	0.0	247
Max.	10.5	100	260	13.0	113	1.7	8.4	100		158	40	25	3.50	0.0	2,400
Min.	2.6	25	200	9.2	74	0.4	7.8	90		132	30	24	0.67	0.0	23

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-1-70	11.8	40	225	11.5	105	1.1	8.4	99		138		22			240
5-2-70	13.4	60	210	10.6	101	0.9	8.4	95		136	35		1.20	0.0	93
5-3-70	11.8	65	220	11.3	103	1.0	8.5	94		142					23
5-4-70	11.0	35	220	11.4	102	0.8	8.4	95		142					23
5-5-70	12.0	45	220	12.1	111	1.1	8.4	95		136					43
5-6-70	11.9	90	220	11.0	101	0.9	8.4	99		138					93
5-7-70	11.3	65	215	11.5	104	0.9	8.3	94		134					93
5-8-70	11.8	35	210	10.6	97	1.0	8.4	97		134		23			240
5-9-70	12.0	30	220	10.0	92	0.6	8.3	96		132	29		0.95	0.0	43
5-10-70	13.5	30	225	10.2	97	1.0	8.3	98		134					93
5-11-70	14.2	25	225	10.5	102	1.2	8.4	97		138					43
5-12-70	13.8	30	215	10.6	102	1.0	8.4	95		130					23
5-13-70	13.5	35	215	11.5	110	1.2	8.4	92		132					93
5-14-70	14.2	30	220	10.4	101	1.1	8.4	90		134					23
5-15-70	14.5	35	215	10.5	102	0.8	8.4	95		136		24			460
5-16-70	14.8	25	205	10.0	98	1.1	8.4	94		130	27		0.80	0.0	460
5-17-70	14.5	30	200	10.2	100	1.3	8.4	91		136					240
5-18-70	14.2	30	225	9.4	91	1.3	8.4	95		138					43
5-19-70	14.8	30	220	9.8	96	0.9	8.4	92		134					240
5-20-70	16.0	25	225	9.0	90	1.0	8.4	93		136					210
5-21-70	14.7	30	220	8.6	84	0.3	8.3	92		130					23
5-22-70	18.2	25	225	10.3	108	1.7	8.4	92		134		24			23
5-23-70	17.7	25	225	10.1	105	1.2	8.5	97		140	32		0.61	0.0	23
5-24-70	18.0	35	220	7.6	79	1.0	8.2	98		140					43
5-25-70	18.0	35	220	7.8	81	0.8	8.3	92		140					93
5-26-70	19.0	35	225	7.5	80	1.1	8.3	95		144					43
5-27-70	18.0	35	220	7.7	80	1.0	8.3	95		140					23
5-28-70	18.0	30	225	7.2	75	1.2	8.4	98		138					43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-29-70	18.0	35	230	7.3	76	1.0	8.3	100		140		22			93
5-30-70	18.0	35	230	7.2	75	1.4	8.3	97		136	23		1.06	0.0	93
5-31-70	19.0	25	225	7.3	78	1.3	8.2	98		140					43
May Avg.	14.9	37	220	9.7	95	1.0	8.4	95		136	29	23	0.92	0.0	108
Max.	19.0	90	230	12.1	111	1.7	8.5	100		144	35	24	1.20	0.0	460
Min.	11.0	25	200	7.2	75	0.3	8.2	90		130	23	22	0.61	0.0	23
6-1-70	19.0	25	220	7.5	80	1.4	8.2	95		140					23
6-2-70	19.0	25	220	7.3	78	1.5	8.2	90		134					93
6-3-70	20.0	35	215	7.2	78	1.5	8.2	90		136					93
6-4-70	19.0	35	210	7.5	80	1.2	8.0	90		136					240
6-5-70	18.0	35	210	7.2	76	1.7	8.0	95		138		24			1,100
6-6-70	19.0	30	205	7.0	75	1.2	8.0	92		138	25		1.84	0.0	460
6-7-70	18.0	30	200	6.5	68	1.0	8.1	90		126					240
6-8-70	19.0	25	210	6.8	73	1.0	8.0	97		128					240
6-9-70	19.0	20	200	7.4	79	1.2	8.0	94		126					43
6-10-70	19.0	20	205	6.9	74	1.1	8.0	92		130					23
6-11-70	21.0	10	200	7.0	78	0.9	8.3	92		126					23
6-12-70	22.0	20	220	8.8	99	0.8	8.3	90		124		21			43
6-13-70	19.0	10	200	5.5	59	1.2	7.6	95		130	25		0.28	0.0	43
6-14-70	20.0	35	200	7.0	76	0.9	7.7	99		136					43
6-15-70	20.0	35	205	6.1	66	1.4	7.6	100		132					93
6-16-70	20.0	25	200	6.2	68	1.0	7.7	95		134					43
6-17-70	22.0	20	200	6.4	72	0.9	7.8	95		130					43
6-18-70	20.0	40	215	6.0	65	1.1	7.8	97		128	26		0.48	0.0	240
6-19-70	22.0	50	210	6.2	70	0.9	7.8	95		124		23			93
6-20-70	23.0	50	200	6.5	75	0.6	7.9	96		124					23
6-21-70	23.0	55	210	6.4	73	1.0	8.0	95		126					43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermillion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-22-70	21.0	55	210	7.5	83	0.8	7.8	90		128					1,500
6-23-70	22.0	50	215	6.8	77	0.9	7.9	92		126					930
6-24-70	22.0	50	215	6.2	70		7.8	90		128					150
6-25-70	23.0	55	205	7.3	84	0.8	8.0	93		130					150
6-26-70	22.0	50	210	7.2	81	0.7	7.8	92		122	24		0.86	0.0	460
6-27-70	20.0	90	225	7.0	76	1.3	8.0	90		124					460
6-28-70	21.0	40	225	6.7	74	0.8	7.9	90		126					240
6-29-70	21.0	80	205	6.5	72	0.7	7.8	91		128					4,600
6-30-70	21.2	60	225	6.6	73	0.6	8.1	96		126					240
June Avg.	20.5	38	210	6.9	75	1.0	7.9	93		129	25	23	0.86	0.0	401
Max.	23.0	90	225	8.8	99	1.7	8.3	100		140	26	24	1.84	0.0	4,600
Min.	18.0	10	200	5.5	59	0.6	7.6	90		122	24	21	0.28	0.0	23
7-1-70	21.0	50	200	6.4	71	0.4	7.8	94		124					240
7-2-70	21.9	15	200	11.0	124	0.8	8.4	92		124	25	21	0.61	0.0	240
7-3-70	23.8	25	195	9.1	106	0.7	8.3	91		120					240
7-4-70	23.4	25	190	7.8	90	0.9	8.3	90		130					43
7-5-70	22.7	25	190	5.0	57	1.0	8.2	90		122					93
7-6-70	22.9	25	200	5.6	64	1.1	8.3	92		124					23
7-7-70	22.6	20	200	5.0	57	0.8	8.4	94		120					23
7-8-70	22.8	20	195	5.6	64	0.8		96		120					43
7-9-70	22.0	20	190	5.4	61	0.7	8.0	93		122					43
7-10-70	22.3	35	200	5.5	62	0.5	7.9	95		122	23	22	0.76	0.0	
7-11-70	22.4	40	200	5.6	64	0.5	8.0	94		120					93
7-12-70	22.5	20	220	6.5	74	0.6	8.0	90		124					460
7-13-70	22.3	15	215	5.5	62	0.8	7.9	95		126					150
7-14-70	22.5	15	210	5.8	66	0.9	7.8	92		122					39
7-15-70	23.8	15	220	5.7	66	0.7	7.8	94		128					93

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-16-70	23.5	15	210	5.5	64	0.6	8.0	90		126					93
7-17-70	22.8	20	200	5.5	63	0.6	7.8	124		124	27	22	0.67	0.0	
7-18-70	23.3	20	200	6.8	78	0.6	7.9	90		126					43
7-19-70	22.9	15	195	4.7	54	0.8	7.8	92		124					93
7-20-70	22.5	15	210	4.7	54	0.7	8.1	92		124					43
7-21-70	20.8	80	205	5.6	61	1.0	7.8	93		126					1,100
7-22-70	21.7	15	200	6.6	74	0.7	8.0	95		128					460
7-23-70	21.7	15	195	6.1	68	0.8	8.0	95		126	23		0.51	0.0	75
7-24-70	21.6	25	200	4.9	55	0.6	7.6	94		124		22			43
7-25-70	22.7	15	200	6.8	78	0.9	8.1	98		124					43
7-26-70	22.6	10	200	6.5	74	0.7	7.8	98		130					43
7-27-70	22.8	20	200	6.4	73	0.5	8.0	95		126					75
7-28-70	23.1	15	195	6.5	75	0.6	8.4	100		126					23
7-29-70	23.5	15	200	6.6	76	0.6	8.4	98		126					43
7-30-70	24.0	10	195	7.0	82	1.0	8.4	100		128	23	21	0.28	0.0	
7-31-70	24.2	10	195	6.8	80	0.7	8.4	96		124					
July Avg.	22.7	22	201	6.2	71	0.7	8.1	95		125	24	22	0.56	0.0	148
Max.	24.0	80	220	11.0	124	1.1	8.4	124		130	27	22	0.76	0.0	1,100
Min.	20.8	10	190	4.7	54	0.4	7.6	90		120	23	21	0.28	0.0	23
8-1-70	25.3	10	215	7.5	90	0.8	8.4	90		122					23
8-2-70	25.5	15	215	7.4	89	0.8	8.2	92		124					43
8-3-70	25.5	10	215	7.5	90	0.7		90		122					23
8-4-70	24.5	10	210	6.5	77	0.7	8.4	92		122					43
8-5-70	24.0	15	210	6.0	70	0.4	8.2	94		124					240
8-6-70	23.5	10	195	5.7	66	0.7	8.3	97		124					23
8-7-70	23.4	8	200	5.9	68	0.5	8.3	94		128	24	25	0.70	0.0	23
8-8-70	23.8	8	200	4.2	49	0.7	8.1	96		128					93

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermillion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-9-70	23.6	10	195	4.8	56	0.6	8.1	95		124					43
8-10-70	23.7	10	195	4.6	53	0.6	8.2	96		124					93
8-11-70	23.9	8	200	6.8	79	1.3	8.4	94		128					23
8-12-70	24.0	8	200	6.4	75	0.7	8.4	98		124					93
8-13-70	24.4	8	200	7.1	83	0.8	8.5	96		126					
8-14-70	24.5	8	200	6.9	81	0.9	8.5	91		120	22	23	0.68	0.0	23
8-15-70	24.7	10	200	6.3	74	0.7	8.3	94		126					23
8-16-70	24.5	10	195	6.0	71	1.6		97		124					43
8-17-80	24.6	10	200	6.2	73	0.5	8.4	95		124					23
8-18-70	24.4	10	200	6.3	74	1.1	8.4	98		126					43
8-19-70	24.5	10	195	6.2	73	1.2	8.4	100		122					43
8-20-70	24.6	10	195	6.1	72	1.1	8.4	97		124	23		0.68	0.0	460
8-21-70	25.0	10	215	7.5	89	1.3	8.4	90		122					240
8-22-70	24.5	10	215	7.3	86	1.3	8.4	92		124					93
8-23-70	23.6	10	210	7.8	90	1.5	8.2	93		126					460
8-24-70	23.3	15	205	7.4	85	1.5	8.2	90		128					460
8-25-70	23.6	15	205	7.3	85	1.4	8.2	91		128					93
8-26-70	23.8	10	195	6.3	73	0.8	8.4	93		120					240
8-27-70	24.5	20	200	6.9	81	1.0	8.4	90		120	21		0.22	0.0	460
8-28-70	24.4	5	200	7.2	85	1.0	8.4	90		120		25			460
8-29-70	24.7	15	225	7.1	84	1.0	8.4	90		120					240
8-30-70	24.2	10	200	6.7	79			94		122					1,100
8-31-70	24.4	50	200	6.2	73	0.7	8.3	96		126					460
Aug. Avg.	24.3	12	203	6.5	77	0.9	8.3	94		124	22	24	0.57	0.0	191
Max.	25.5	50	225	7.8	90	1.6	8.5	100		128	24	25	0.70	0.0	1,100
Min.	23.3	5	195	4.2	49	0.4	8.1	90		120	21	23	0.22	0.0	23

Sept. - (No data submitted by Ohio Department of Health).

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-1-70	17.5	30	205	9.5	99	1.6	8.2	90		128					23
10-2-70	18.2	30	205	8.2	86	1.6	8.2	93		130	28		0.88	0.0	150
10-3-70	17.5	30	205	9.2	96	1.7	8.2	93		134					1,500
10-4-70	16.2	45	200	8.5	86	1.5	8.2	90		134					93
10-5-70	16.5	20	205	8.9	91	1.0	8.2	91		124					240
10-6-70	15.4	20	200	9.0	90	0.0		90		126					93
10-7-70	16.7	20	215	9.4	96	1.6	8.3	90		122					1,100
10-8-70	16.8	20	210	9.7	99	1.2	8.3	94		120	24		0.75	0.0	460
10-9-70	17.1	20	200	9.1	94	1.1	8.3	90		120					43
10-10-70	17.8	20	200	9.6	100	1.3	8.2	90		122					240
10-11-70	17.0	20	210	9.8	101	1.3	8.2	92		120					1,100
10-12-70	16.8	20	210	8.5	87	1.3	8.2	95		124					210
10-13-70	16.7	30	200	8.6	88	1.3	8.3	92		122					93
10-14-70	17.1	20	200	8.7	90	1.3	8.2	92		120					93
10-15-70	16.8	30	200	8.5	87	1.4	8.3	94		120	22		0.68	0.0	240
10-16-70	15.4	30	200	8.4	84	1.3	8.2	93		124					240
10-17-70	14.6	30	200	8.5	83	1.3	8.3	95		122					93
10-18-70	12.8	35	215	8.4	79	1.1	8.3	96		126					240
10-19-70	12.7	30	210	8.8	83	0.8	8.2	98		126					240
10-20-70	14.5	30	205	10.4	102	1.1	8.2	92		126					93
10-21-70	14.8	30	200	9.5	94	1.3	8.0	96		128					93
10-22-70	14.2	20	200	10.0	97	1.2	8.2	92		128	22		0.81	0.0	23
10-23-70	14.5	20	210	10.8	106	1.1	8.0	94		124					43
10-24-70	14.8	20	200	10.7	106	1.3	8.0	94		126					93
10-25-70	14.3	30	205	9.7	95	1.0	8.3	93		122					93
10-26-70	14.4	30	200	9.4	92	1.1	8.3	92		122					93
10-27-70	14.2	30	205	9.5	93	1.1	8.3	94		124					93
10-28-70	14.1	30	205	9.2	89	1.4	8.3	93		120					43
10-29-70	13.9	20	210	9.0	87	1.4	8.2	95		120					23

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermillion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-30-70	13.7	15	200	8.9	86	1.5	8.1	92		132	27	24	0.75		23
10-31-70	14.2	15	200	9.3	91	1.0	8.2	95		130					23
Oct. Avg.	15.5	25	204	9.2	92	1.2	8.2	93		125	25	24	0.77	0.0	233
Max.	18.2	45	215	10.8	106	1.7	8.3	98		134	28	24	0.88	0.0	1,500
Min.	12.7	15	200	8.2	79	0.0	8.0	90		120	22	24	0.68	0.0	23
11-1-70	14.0	10	200	9.5	92	1.4	8.3	95		126					23
11-2-70	13.8	15	200	9.3	90	1.1	8.3	94		134					43
11-3-70	13.1	30	200	8.9	85	1.1	8.0	95		130					240
11-4-70	12.6	30	200	9.3	88	1.3	8.2	98		126					23
11-5-70	12.2	35	195	9.1	84	1.2	8.2	97		126	24	23	1.20	0.0	43
11-6-70	11.6	30	200	9.0	82	0.9	8.1	95		124					240
11-7-70	11.3	25	200	9.2	84	1.6	8.2	98		124					43
11-8-70	11.2	25	195	9.3	84	1.3	8.1	95		126					240
11-9-70	11.9	25	200	9.2	85	1.2	8.0	92		126					23
11-10-70	12.0	20	205	10.4	96	1.3	8.0	91		128					460
11-11-70	14.0	20	200	10.5	102	1.1	8.0	92		122					93
11-12-70	12.3	20	200	10.5	97	1.3	8.0	92		122					240
11-13-70	12.0	20	200	10.4	96	1.4	8.0	91		124	23		0.98	0.0	43
11-14-70	10.9	30	190	10.1	91	0.9	8.2	95		122					93
11-15-70	10.2	80	190	10.3	91	1.3	8.1	90		120					240
11-16-70	8.3	90	191	10.6	90	0.9	8.0	91		118					240
11-17-70	6.2	90	300	11.1	90	1.4	8.0	100		196					1,100
11-18-70	6.3	70	250	10.9	88	0.9	8.0	92		150					1,500
11-19-70	7.9	35	255	10.4	88	1.8	8.0	99		172					460
11-20-70	8.4	25	185	10.5	89	1.2	8.1	90		124	22	21	0.88	0.0	75
11-21-70	8.4	100	185	10.6	90	1.6	8.1	95		122					43
11-22-70	8.1	45	185	11.1	94	1.5	8.2	91		114					43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermillion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
11-23-70	6.1	45	180	11.4	92	1.8	8.2	90		116					39
11-24-70	5.2	55	190	11.5	91	1.6	8.2	93		118					93
11-25-70	4.8	65	190	11.4	89	1.9	8.1	94		117					93
11-26-70	4.2	40	185	11.6	89	1.5	8.1	97		118	23		1.54	0.0	43
11-27-70	4.6	40	180	12.1	94	1.8	8.2	99		116					43
11-28-70	6.1	60	180	11.5	93	1.6	8.1	90		118					240
11-29-70	6.5	60		11.3	92	1.7	8.2	92		118					43
11-30-70	7.2	60	195	10.2	84	1.1	8.0	92		114					120
Nov. Avg.	9.4	43	201	10.4	90	1.4	8.1	94		127	23	22	1.15	0.0	209
Max.	14.0	100	300	12.1	102	1.9	8.3	100		196	24	23	1.54	0.0	1,500
Min.	4.2	10	180	8.9	82	0.9	8.0	90		114	22	21	0.88	0.0	23
12-1-70	7.5	70	215	10.5	88		8.0	97		118					2,400
12-2-70	8.5	70	195	10.8	92	2.0	8.0	90		114					150
12-3-70	8.2	30	195	11.2	95	1.3	8.0	90		120					93
12-4-70	7.4	70	180	10.8	90	0.7	8.0	90		106		21			150
12-5-70	5.9	30	190	11.1	89		8.0	91		110	26		0.12	0.0	460
12-6-70	4.1	60	200	11.8	91	2.1	8.0	95		112					4,600
12-7-70	3.4	80	200	11.9	90	0.9	8.0	96		118					1,100
12-8-70	2.9	40	205	12.2	91		7.9	97		118					150
12-9-70	3.5	35	190	12.3	93		8.0	94		122					93
12-10-70	3.8	65	195	13.0	99	2.1	8.0	96		124					43
12-11-70	4.0	50	200	12.9	99	1.2	8.3	94		126	29	19	0.98	0.0	150
12-12-70	4.3	95	190	12.6	97	1.3	8.2	96		124					43
12-13-70	3.8	100	210	12.5	95	1.6	8.1	96		130					4,600
12-14-70	3.4	80	200	12.7	96	0.9	8.0	98		120					43
12-15-70	3.1	70	195	12.6	94	1.6	8.0	96		122					240
12-16-70	2.6	90	210	12.8	94	1.5	7.9	97		124					150

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
12-17-70	2.7	115	220	12.9	95	1.3	7.8	96		124					240
12-18-70	2.9	90	200	12.5	93	1.2	7.9	98		126	28	20	1.15	0.0	240
12-19-70	4.2	85	200	13.5	104	1.1	7.8	92		128					460
12-20-70	4.5	150	200	13.8	107	0.9	7.9	98		128					11,000
12-21-70	4.2	130	205	14.3	110	0.8	8.0	92		120					1,100
12-22-70	3.5	120	200	13.8	119	0.8	8.0	92		122					1,200
12-23-70	4.0	75	205	13.7	105	1.0	8.2	90		126					460
12-24-70	1.3	95	200	13.6	97	1.3	8.2	93		116	26		2.00	0.0	210
12-25-70	0.9	90	265	13.0	92	1.0	8.2	99		130		22			10,000
12-26-70	0.7	110	225	13.6	95	1.6	8.3	89		116					240
12-27-70	0.5	105	225	13.6	95	1.5	8.4	95		124					240
12-28-70	0.4	110	205	13.7	95	1.2	8.3	94		124					150
12-29-70	0.7	60	190	13.3	93	1.1	8.2	94		116					240
12-30-70	0.9	50	190	13.5	95	1.6	8.4	90		130					640
12-31-70	1.1	45	190	13.3	94	1.4	8.2	94		120					240
Dec. Avg.	3.5	80	203	12.8	96	1.3	8.1	94		121	27	21	1.31	0.0	1,327
Max.	8.5	150	265	15.8	119	2.1	8.4	99		130	29	22	2.00	0.0	11,000
Min.	0.4	30	180	10.5	88	0.7	7.8	89		106	26	19	0.98	0.0	43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-70		35				0.6	8.2								
1-2-70		25				0.7	8.3								53
1-3-70		15				0.7	8.3								
1-4-70		15				2.0	8.1								
1-5-70		10	170	14.8		2.0	8.2	90		130					15
1-6-70		8	165	13.9		1.9	8.2	90		128					8
1-7-70		8	170	13.8		1.4	8.3	92		140					10
1-8-70		5	170	13.5		2.0	8.2	92		135					17
1-9-70		15	178	13.8		1.6	8.3	90		135					
1-10-70		3				2.6	8.3								
1-11-70		3				3.2	8.2								
1-12-70		3	192	14.0		2.1	8.2	96		138					26
1-13-70		2	210	14.5		2.4	8.3	94		140					22
1-14-70		2	200	14.8		3.9	8.1	90		131					7
1-15-70		3	200	15.3		2.4	8.0	94		136					13
1-16-70		2	180	14.9		2.8	8.2	94		135					16
1-17-70		1				2.0	8.1								
1-18-70		2				1.1	8.1								
1-19-70		2	189	14.4		0.7	8.2	92		131					45
1-20-70		2	188	14.7		0.8	8.3	90		134					4
1-21-70		1	188	14.7		1.3	8.3	92		140					21
1-22-70		3	190	14.8		1.2	8.3	90		136					13
1-23-70		2				1.3	8.2								6
1-24-70		2				2.4	8.3								
1-25-70		2				2.2	8.2								
1-26-70		2	182	14.7		4.2	8.2	92		127					6
1-27-70	1.5	2	174	14.2	101	1.6	8.1	90		130					7

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-28-70		2	186	14.8		1.9	8.1	90		129					58
1-29-70		3	195	15.2		2.2	8.4	92		134					123
1-30-70		20				2.5	8.2								
1-31-70		30				0.4	8.2								
Jan. Avg.	1.5	7	185	14.5	101	1.9	8.2	92		134					25
Max.	1.5	35	210	15.3	101	4.2	8.4	96		140					123
Min.	1.5	1	165	13.5	101	0.4	8.0	90		127					4
2-1-70		70				0.1	8.2								
2-2-70		55	171	15.3		1.6	8.1	90		127					423
2-3-70		120	169	14.7		1.9	8.1	92		136					2,333
2-4-70		65	178	15.4		2.1	8.3	90		134					397
2-5-70		55	173	15.5		2.8	8.2	92		129					974
2-6-70		25	176	15.7		1.4	8.2	90		131					167
2-7-70		15				1.3	8.4								
2-8-70		15				0.6	8.1								
2-9-70		10	170	15.1		0.1	8.1	90		137					70
2-10-70		9	175	16.3		0.1	8.2	90		138					152
2-11-70		9	174	21.4		0.1	8.2	90		134					99
2-12-70		10				0.1	8.3								
2-13-70		20	188	18.9		0.8	8.1	82		132					3,160
2-14-70		15				1.4	8.4								
2-15-70		10				1.3	8.4								
2-16-70		9	175	14.1		0.9	8.3	90		130					130
2-17-70		10	178	14.1		0.7	8.2	92		128					263
2-18-70		10	179	14.6		1.5	8.3	92		130					10
2-19-70		6	167	16.3		0.7	8.3	88		118					20

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-20-70		9				0.8	8.3								
2-21-70		6				1.8	8.3								30
2-22-70		8				2.3	8.2								
2-23-70		6				1.6	8.3								
2-24-70		9	188	14.8		0.1	8.4	90		132					
2-25-70		15	185	15.4		0.8	8.4	90		127					2
2-26-70		55	185	13.8		0.9	8.6	92		132					60
2-27-70		70	182	13.9		0.1	8.4	92		137					9
2-28-70		35				0.3	8.4								110
Feb. Avg.		27	177	15.5		1.0	8.3	90		131					467
Max.		120	188	21.4		2.8	8.6	92		138					3,160
Min.		6	167	13.8		0.1	8.1	82		118					2
3-1-70		40				0.5	8.5	90		133					
3-2-70		15	198	14.3											15
3-3-70		10	190	13.8		0.2	8.4	90		133					3
3-4-70		7	180	15.0		0.1	8.5	90		134					4
3-5-70		9	186	13.8		0.2	8.4	92		139					20
3-6-70		6	185	14.4		0.7	8.4	90		140					17
3-7-70		6				0.1	8.5								
3-8-70		25				0.1	8.6								
3-9-70		25	194	14.0		1.1	8.4	88		139					180
3-10-70		5	198	14.4		0.1	8.6	90		140					24
3-11-70		8	188	13.9		0.1	8.6	90		120					31
3-12-70		5	185	14.6		0.1	8.6	86		124					25
3-13-70		5				0.1	8.6								9
3-14-70		4				0.1	8.6								

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-15-70		6				0.2	8.4								
3-16-70		6	170	14.4		0.1	8.4	86		125					39
3-17-70		4	180	14.6		0.1	8.5	86		130					44
3-18-70		4	182	14.8		0.1	8.6	82		145					15
3-19-70		4	198	14.3		0.1	8.4	88		136					32
3-20-70		4	182	15.0		0.1	8.7	92		137					130
3-21-70		9				0.1	8.6								
3-22-70		7				0.1	8.5								
3-23-70		10	168	15.4		0.1	8.8	86		146					180
3-24-70		10	182	14.2		0.1	8.5	88		136					115
3-25-70		7	178	14.3		0.1	8.9	92		147					170
3-26-70		40	186	14.8		0.9	8.6	84		137					160
3-27-70		95	190	14.3		0.1	8.8	90		136					2,126
3-28-70		15				0.1	8.7								
3-29-70		25				0.1	8.2								
3-30-70		35	190	13.8		0.6	8.7	90		126					143
3-31-70		10	178	14.2		0.1	8.7	90		141					20
Mar. Avg.		15	185	14.4		0.2	8.6	89		135					159
Max.		95	198	15.4		1.1	8.9	92		147					2,126
Min.		4	168	13.8		0.1	8.2	82		120					3
4-1-70		10	168	13.8		0.8	8.6	90		137					15
4-2-70		70	197	12.5		2.6	8.5	90		145					266
4-3-70		85	188	12.6		1.1	8.3	88		132					326
4-4-70		35				1.5	8.2								
4-5-70		95				0.5	8.1								
4-6-70		50	208	12.9		0.2	8.1	76		134					144

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-7-70		65				1.1	8.1								
4-8-70		55	210	11.5		1.1	8.1	90		142					100
4-9-70		20	220	12.5		1.0	8.2	90		142					524
4-10-70		35	215	11.5		1.5	8.3	90		140					55
4-11-70		45				1.5	8.3								177
4-12-70		10				1.0	8.4								
4-13-70		45	228	10.1		2.2	8.2	88		139					
4-14-70		40	210	10.2		2.4	8.3	88		134					87
4-15-70		15	215	10.5		1.2	8.1	90		138					20
4-16-70		10	200	12.2		1.7	8.2	88		142					4
4-17-70		10	225	12.4		0.8	8.2	90		134					4
4-18-70		10				0.1	8.4								27
4-19-70		15				1.4	8.2								
4-20-70		65	202	12.7		1.1	8.3	86		144					
4-21-70		75	230	11.5		0.5	8.3	90		154					20
4-22-70		40	250	11.2		1.0	8.2	84		148					73
4-23-70		20	240	11.5		1.1	8.3	88		134					45
4-24-70		20				2.9	8.3								29
4-25-70		10				0.1	8.3								
4-26-70		15				0.6	8.4								
4-27-70		9	225	12.1		1.1	8.2	88		128					
4-28-70		10	210	11.3		1.0	8.3	90		128					145
4-29-70		15	202	11.7		0.3	8.4	90		128					56
4-30-70		8	210	11.9		0.3	8.3	92		127					45
															25
Apr. Avg.		34	214	11.8		1.1	8.3	88		138					
Max.		95	250	13.8		2.9	8.6	92		154					105
Min.		8	188	10.1		0.1	8.1	76		127					524
															4

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-1-70		9	238	12.1		0.2	8.9	90		132					12
5-2-70		45				0.1	8.8								
5-3-70		35				0.1	8.6								
5-4-70		7	238	11.0		0.1	8.7	92		140					4
5-5-70		4	235	11.7		1.1	8.7	94		136					7
5-6-70		40	230	12.1		0.6	8.6	92		135					30
5-7-70		25	230	10.8		1.6	8.7	94		134					6
5-8-70		15	228	10.6		0.1	8.7	82		127					5
5-9-70		15				0.1	8.8								
5-10-70		10				1.6	8.8								
5-11-70		15	253	10.8		0.1	8.9	90		136					3
5-12-70		10	236	10.5		1.5	8.9	92		130					7
5-13-70		7	240	10.6		1.6	8.8	92		138					15
5-14-70		25	242	10.3		2.2	8.9	90		135					20
5-15-70		20	228	10.2		0.1	8.7	90		131					79
5-16-70		6				0.4	8.7								
5-17-70		8				1.5	8.7								
5-18-70		10	232	9.6		0.8	8.8	88		134					34
5-19-70		10	242	9.4		0.2	8.7	90		137					47
5-20-70		7	247	9.9		0.8	8.7	90		137					15
5-21-70		4	240	9.6		0.2	8.7	92		147					14
5-22-70		3	244	10.4		0.1	8.9	88		140					10
5-23-70		3				0.1	8.9								
5-24-70		10				0.1	8.4								
5-25-70		7	240	9.2		2.3	8.4	90		140					20
5-26-70		20	252	9.0		1.9	8.6	90		136					12
5-27-70		55	270	9.0		1.2	8.4	90		143					80

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-28-70		15				0.5	8.5								
5-29-70		35				0.1	8.5								75
5-30-70		25				1.8	8.5								
5-31-70		25				0.6	8.4								
May Avg.		17	240	10.4		0.8	8.7	90		136					
Max.		55	270	12.1		2.3	8.9	94		147					25
Min.		3	228	9.0		0.1	8.4	82		127					80
6-1-70	18.0	25	260	8.7	91	0.3	8.3	90		130					3
6-2-70		7				1.5	8.3								39
6-3-70		40				2.7	8.3								42
6-4-70	18.0	35	260	9.2	97	1.0	8.3	88		148					157
6-5-70	17.0	10	247	9.0	93	0.1	8.5	90		148					530
6-6-70		15				1.3	8.2								159
6-7-70		10				1.4	8.2								
6-8-70	18.0	10	254	9.2	97	1.6	8.4	92		138					153
6-9-70	19.0	8	260	9.6	103	0.1	8.3	86		136					63
6-10-70	19.0	7	260	8.8	94	1.6	8.2	90		135					34
6-11-70	19.0	7	259	9.0	96	1.7	8.2	88		130					41
6-12-70		6				1.6	8.2								62
6-13-70		5				0.1	7.9								
6-14-70		50				0.5	7.9								
6-15-70	18.0	10	257	8.1	85	0.9	8.1	90		134					30
6-16-70	18.0	8	252	8.5	89	1.8	8.0	90		132					21
6-17-70		8				1.1	8.4								54
6-18-70	21.0	4	250	9.2	102	1.1	8.4	88		138					19
6-19-70	21.0	50	221	9.0	100	1.0	8.2	90		132					110

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-20-70		25				2.3	8.1								
6-21-70		7				0.1	8.2								
6-22-70		9				0.2	8.2								
6-23-70	20.0	7	222	8.7	95	1.1	8.1	90		132					152
6-24-70		7				1.0	7.9								70
6-25-70	20.0	45	221	9.0	98	1.2	8.1	88		135					80
6-26-70	20.0	9	223	9.6	105	1.0	8.3	92		138					450
6-27-70		45				0.5	8.1								
6-28-70		4				0.6	8.0								
6-29-70	20.0	6	227	9.2	100	0.1	8.0	88		137					47
6-30-70	21.0	10	220	9.0	100	2.0	8.3	92		146					62
June Avg.	19.2	16	243	9.0	97	1.1	8.2	90		137					120
Max.	21.0	50	260	9.6	104	2.7	8.5	92		148					530
Min.	17.0	4	220	8.1	85	0.1	7.9	86		130					19
7-1-70	21.0	5	223	9.4	104	0.8	8.3	88		140					37
7-2-70		10				1.8	8.6								52
7-3-70		6				0.4	8.3								
7-4-70		15				2.9	8.6								
7-5-70		50				2.7	8.5								
7-6-70	22.0	6	241	8.1	91	2.8	8.6	90		137					6
7-7-70	22.0	10	258	6.5	73	2.1	8.4	90		124					25
7-8-70	22.0	7	260	7.2	81	1.9	8.5	90		133					33
7-9-70	22.0	4	258	7.2	81	1.9	8.2	90		130					12
7-10-70	21.0	4	265	7.6	84	1.8	8.2	90		137					180
7-11-70		3				1.8	8.3								
7-12-70		3				1.8	8.3								

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-13-70	21.0	4	272	8.1	90	2.1	8.1	88		140					27
7-14-70	21.0	3	268	8.4	93	1.2	8.2	90		136					22
7-15-70	22.0	2	272	8.7	98	1.8	8.1	94		125					68
7-16-70	22.0	75	275	8.5	96	2.5	8.3	96		130					113
7-17-70	22.0	10	279	6.4	72	2.0	8.1	90		120					115
7-18-70		5				2.3	8.3								
7-19-70		6				2.2	8.4								
7-20-70	22.0	20	272	8.5	96	2.0	8.4	90		143					112
7-21-70	22.0	50	270	8.3	94	1.6	8.1	90		122					25
7-22-70	22.0	10	263	7.7	87	1.1	8.2	90		123					117
7-23-70	21.0	7	265	8.8	98	0.3	8.3	90		122					47
7-24-70	21.0	7	270	8.1	90	0.1	8.3	90		127					37
7-25-70		4				0.6	8.4								
7-26-70		4				0.1	8.2								
7-27-70	23.0	3	273	10.3	118	0.5	8.7	86		120					152
7-28-70	22.0	2	270	10.1	114	0.2	8.8	90		119					30
7-29-70	23.0	4	272	11.2	129	0.2	8.8	86		118					26
7-30-70	23.5	7	270	11.8	137	0.3	8.8	88		117	30				142
7-31-70	24.0	3	273	9.4	110	2.0	8.8	90		119					35
July Avg.	22.0	11	265	8.5	97	1.5	8.4	90		128	30				70
Max.	24.0	75	279	11.8	139	2.9	8.8	96		143	30				200
Min.	21.0	2	223	6.4	73	0.1	8.1	86		117	30				6
8-1-70		4				0.3	8.9								
8-2-70		30				1.5	8.9								
8-3-70	24.5	10	286	10.4	123	2.4	8.8	88		119					15
8-4-70	24.0	15	280	7.1	83	2.2	8.8	86		120					80

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-5-70	24.0	5	275	6.6	77	1.2	8.8	90		120					10
8-6-70	24.0	4	253	7.0	82	2.2	8.7	88		118					30
8-7-70	24.0	3	279	7.3	85	2.4	8.8	84		122					45
8-8-70		4				2.0	8.2								
8-9-70		4				2.0	8.7								
8-10-70	24.0	4	258	6.7	78	1.7	8.9	84		120					4
8-11-70	23.2	8	285	5.0	58	3.3	8.1	88		118					50
8-12-70	23.8	8	280	7.4	86	2.1	9.0	90		123					15
8-13-70	24.0	7	285	8.3	97	1.6	9.1	82		120					5
8-14-70	24.5	5	289	8.0	94	0.8	8.8	86		118	29				113
8-15-70		8				2.5	8.7								
8-16-70		7				0.1	8.5								
8-17-70	24.0	2	270	9.0	105	1.2	8.7	92		120					83
8-18-70	24.0	5	268	8.8	103	2.0	8.6	90		120					66
8-19-70	24.0	7	285	8.5	99	0,6	8.7	92		122					146
8-20-70	23.5	6	280	8.5	98	2.1	8.5	90		127					97
8-21-70		10				1.4	8.5								197
8-22-70		5				1.8	8.6								
8-23-70		5				1.4	8.5								
8-24-70	23.3	15	282	8.1	94	2.0	8.6	86		126					103
8-25-70	23.0	7	279	9.0	103	1.6	8.6	88		123					20
8-26-70	23.0	6	283	8.1	93	2.0	8.4	86		120					66
8-27-70	23.0	4	290	9.0	103	1.3	8.2	84		121					4
8-28-70	23.0	4	287	9.2	106	2.1	8.7	86		118					81
8-29-70		10				1.2	8.7								
8-30-70		4				0.2	8.7								
8-31-71	23.0	45	271	7.5	86	2.3	8.7	88		121					390

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
Aug. Avg.	23.7	9	278	8.0	93	1.7	8.7	87		121	29				77
Max.	24.5	45	290	10.4	124	3.3	9.1	92		127	29				390
Min.	21.0	2	253	5.0	57	0.1	8.1	82		118	29				4
9-1-70	22.0	7	280	8.7	98	2.3	8.6	88		120					177
9-2-70	22.0	6	282	8.4	95	2.1	8.7	88		123					80
9-3-70	22.0	7	291	8.1	91	2.1	8.6	90		123	27				100
9-4-70	22.0	15	285	8.2	93	0.9	8.8	88		121					120
9-5-70		10				3.0	8.6								
9-6-70		7				1.8	8.7								
9-7-70		4				2.8	8.5								
9-8-70	22.0	6	271	7.8	88	2.5	8.5	90		130					55
9-9-70	21.0	6	282	8.5	94	2.4	8.6	92		129	23				66
9-10-70	21.5	8	290	7.3	82	2.4	8.4	86		127					333
9-11-70	21.3	30	287	7.3	81	2.9	8.4	88		125					280
9-12-70		15				1.6	8.4								
9-13-70		9				1.9	8.5								
9-14-70	20.0	32	292	8.8	96	1.5	8.3	94		128					380
9-15-70		35				0.7	8.3								160
9-16-70	20.2	15	287	8.3	91	0.9	8.3	94		130					226
9-17-70	20.0	15	280	8.9	97	1.4	8.3	92		128					70
9-18-70		15				0.4	8.3								8
9-19-70		10				0.5	8.3								
9-20-70		8				0.7	8.4								
9-21-70	20.8	7	282	9.0	99	1.4	8.4	92		128					90
9-22-70	20.8	8	282	9.2	102	2.5	8.4	90		132					113
9-23-70	20.8	10	288	9.0	99	0.4	8.6	90		134					41
9-24-70	21.2	15	290	9.0	100	1.5	8.6	90		128					65
9-25-70	21.0	9	287	8.5	94	0.5	8.4	88		127					76

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
9-26-70		7				0.1	8.7								
9-27-70		40				1.5	8.6								
9-28-70	19.0	40	280	8.5	91	1.6	8.4	90		130					170
9-29-70	18.0	35	260	8.5	89	0.8	8.4	92		128					10
9-30-70		20				0.6	8.3								88
Sept. Avg.	20.9	15	283	8.4	93	1.5	8.5	90		127	25				129
Max.	22.0	40	292	9.2	102	3.0	8.8	94		134	27				380
Min.	18.0	4	260	8.1	81	0.1	8.3	86		120	23				8
10-1-70	18.0	35	243	8.7	91	1.7	8.3	94		127					198
10-2-70	17.5	6	250	8.8	91	1.8	8.3	92		125					325
10-3-70		15				1.2	8.5								
10-4-70		35				0.3	8.5								
10-5-70	15.8	20	252	8.5	85	1.2	8.3	90		124					64
10-6-70	15.8	15	247	9.0	91	1.2	8.3	92		120					89
10-7-70	16.2	10	242	9.2	93	0.9	8.4	90		120					85
10-8-70	16.1	6	228	9.9	100	1.3	8.7	90		122					133
10-9-70	16.3	4	245	9.1	92	0.9	8.6	90		126					69
10-10-70		30				0.6	8.6								
10-11-70		7				0.8	8.6								
10-12-70		9				0.1	8.6								
10-13-70	17.0	7	256	9.9	102	0.2	8.5	94		126					67
10-14-70	17.5	6	243	9.4	98	1.2	8.3	94		130					1,060
10-15-70	16.5	50	242	8.7	89	0.2	8.6	88		128					190
10-16-70	15.0	40	248	8.1	80	0.8		88		132					174
10-17-70		35				0.5	8.4								
10-18-70		40				0.3	8.4								
10-19-70	14.3	15	238	9.6	94	1.0	8.4	86		126					4
10-20-70	14.3	15	240	9.4	92	0.1	8.5	90		127					90

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-21-70	14.0	8	235	9.4	91	0.2	8.5	90		132					
10-22-70	14.2	7	240	9.9	96	1.0	8.5	90		135					95
10-23-70	14.5	4	239	9.9	97	1.0	8.5	90		140					417
10-24-70		9				0.4	8.5								1,300
10-25-70		8				0.9	8.4								
10-26-70	14.0	9	242	10.1	98	0.5	8.5	86		129					50
10-27-70	14.0	10	222	10.1	98	0.1	8.5	86		130					37
10-28-70	14.0	25	226	9.9	96	0.9	8.6	86		127					28
10-29-70	13.5	10	225	9.9	95	0.2	8.6	86		129					27
10-30-70	13.4	7	232	8.8	84	0.3	8.4	88							33
10-31-70		8				0.7	8.3								
Oct. Avg.	15.3	16	240	9.3	93	0.7	8.5	90		128					216
Max.	18.0	50	256	10.1	102	1.8	8.7	94		140					1,300
Min.	13.4	4	222	8.1	79	0.1	8.3	86		120					4
11-1-70		8				0.6	8.4								
11-2-70	13.4	30	238	9.9	95	0.2	8.4	88		124					52
11-3-70	13.4	15	232	10.0	95	0.1	8.4	86		130					44
11-4-70	12.8	15	238	9.0	85	0.1	8.4	88		125					85
11-5-70	12.0	50	231	9.6	89	0.2	8.3	88		126	19				240
11-6-70	11.5	30	208	10.2	93	0.6	8.1	86		121					85
11-7-70		20				0.1	8.3								
11-8-70		15				0.3	8.3								
11-9-70	11.2	15	198	9.9	90	0.1	8.4	88		115					55
11-10-70	11.5	8	198	10.1	92	0.1	8.2	80		115					89
11-11-70		7				0.1	8.2								
11-12-70	11.7	8	197	11.6	106	0.1	8.2	84		112					24
11-13-70	11.2	20	205	10.3	93	2.0	8.0	88		119	18				900
11-14-70		30				1.4	8.2								

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
11-15-70		65				1.2	8.2								
11-16-70	9.5	70	183	10.9	95	0.2	8.1	82		110					900
11-17-70	9.0	45	190	10.8	93	0.1	8.1	82		114					527
11-18-70	8.5	25	193	10.5	90	0.9	8.0	86		117					366
11-19-70	8.0	30	188	10.6	89	0.8	8.2	82		121					300
11-20-70	8.0	40	193	10.3	87	1.0	8.1	80		120	23				753
11-21-70		100				0.9	8.2								
11-22-70		25				0.5	8.3								
11-23-70	8.0	115	192	10.8	91	1.0	8.1	80		115					354
11-24-70		110				0.1	8.2								180
11-25-70	8.0	50	172	11.0	93	0.1	8.1	92		120					70
11-26-70		35				0.1	8.2								
11-27-70	6.0	20	162	10.8	87	0.1	8.2	88		112					98
11-28-70		40				0.5	8.3								
11-29-70		45				0.2	8.4								
11-30-70	5.5	40	180	10.9	87	0.1	8.2	84		120					73
Nov. Avg.	9.9	38	200	10.4	92	0.5	8.2	85		119	20				273
Max.	13.4	115	238	11.6	107	2.0	8.4	92		130	23				900
Min.	5.5	7	162	9.0	85	0.1	8.0	80		110	18				24
12-1-70	6.0	20	180	11.1	89	0.1	8.2	84		119					237
12-2-70	6.2	30	182	11.5	93	0.2	8.2	86		121					9
12-3-70	6.8	20	186	12.0	98	0.8	8.2	84		124					4
12-4-70	7.2	75	192	11.7	97	1.5	8.2	86		117					150
12-5-70		90				0.6	8.2								
12-6-70		120				0.5	8.2								
12-7-70	4.0	70	180	10.3	79	0.8	8.3	84		130	22				123

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
12-8-70	3.0	40	185	12.8	95	0.6	8.1	86		135					140
12-9-70	3.0	35	182	11.9	89	0.1	8.3	86		133					42
12-10-70	4.0	50	189	13.5	103	1.0	8.3	86		138					87
12-11-70	3.5	25	180	13.0	98	1.0	8.3	86		140					105
12-12-70		50				0.5	8.3								
12-13-70		45				0.1	8.4								
12-14-70	5.0	75	175	11.4	89	0.5	8.4	88		120					47
12-15-70	3.0	80	187	12.1	90	0.8	8.2	86		136					590
12-16-70	3.0	55	172	12.3	92	0.7	8.2	84		127					77
12-17-70	3.5	65	175	11.9	90	0.4	8.4	86		136	9				200
12-18-70	3.0	30	180	12.1	90	0.1	8.3	86		135					267
12-19-70		30				0.4	8.2								
12-20-70		70				1.2	8.1								
12-21-70	3.0	35	177	12.6	94	1.8	8.3	84		158					118
12-22-70	3.0	95	190	11.2	83	0.8	8.4	82		135					190
12-23-70	3.0	40	170	11.9	89	0.8	8.3	88		140	20				20
12-24-70	2.8	170	173	11.5	85	0.9	8.4	86		138					560
12-25-70		45				1.1	8.3								
12-26-70		105				1.0	8.3								
12-27-70		110				0.7	8.4								
12-28-70	1.0	95	180	12.1	85	1.7	8.3	90		135					23
12-29-70	1.0	50	172	11.6	82	2.0	8.3	88		130					17
12-30-70		25				1.6	8.4								15
12-31-70	1.0	20	183	11.8	83	1.9	8.5	82		134					18
Dec. Avg.	3.6	60	180	11.9	90	0.8	8.3	86		132	17				138
Max.	7.2	170	192	13.5	103	2.0	8.5	90		158	22				590
Min.	1.0	20	170	10.3	79	0.1	8.1	82		117	9				4

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
1-1-70	1.5	30	1	175			1.3	8.1	89								
1-2-70	1.8	22	3	180	12.5	90	2.1	8.0	95		122					130	
1-3-70	1.7	20	1	171	12.8	92	2.8	8.1	88		130					130	
1-4-70	1.5	12	1	170			2.7	8.1	89								
1-5-70	1.6	12	2	175	12.2	87	3.3	8.0	93		134					290	60
1-6-70	1.4	9	0	178	13.5	96	1.7	8.1	90	210	128	29	24	0.20	0.0	340	52
1-7-70	1.7	8	2	183	12.8	92	2.1	8.1	90		126					250	52
1-8-70	1.6	6	1	190	12.7	91	4.2	8.0	88	158	138					220	44
1-9-70	1.4	4	2		12.6	90	3.1	8.2	88		123					500	52
1-10-70	1.8	4	2	200	13.5	97	4.1	8.0	93		128					340	
1-11-70	1.4	3	2				4.4	8.0	90								
1-12-70	1.5	3	1	200	13.4	95	4.8	8.1	93		130					130	64
1-13-70	1.8	3	2	200	13.1	94	5.1	8.0	96	169	132	33	32	0.11		350	40
1-14-70	1.6	4	1	191	13.3	95	3.9	8.1	93		130					130	36
1-15-70	1.7	15	1	190	13.3	95	3.6	8.1	92	191	126					52	16
1-16-70	1.8	2	1	192	13.3	96	2.3	8.1	92		126					20	
1-17-70	1.8	2	1	180	13.2	95	3.0	8.1	90		126					40	
1-18-70	1.7	2	1	180			3.0	8.1	92								
1-19-70	1.6	2	1	220	12.8	91	2.1	8.0	93		124					22	48
1-20-70	1.4	2	1	190			4.2	8.1	87	211	126					63	
1-21-70	1.3	3	1	170	13.9	99	1.1	8.1	92		120					66	68
1-22-70	1.7	2	1	178	13.7	98	2.2	8.0	92	166	126	29	25	0.03		24	60
1-23-70	1.7	2	1		12.7	91	3.3	8.0	89		126					47	52
1-24-70	1.4	2	1	180	13.7	97	2.6	8.1	95		128					10	
1-25-70	1.7	2	1	191			2.5	8.0	90								
1-26-70	1.9	3	1	188	13.1	94	2.9	8.1	94		124					270	60
1-27-70	1.8	3	1	175	13.4	96	3.8	8.0	94	175	126	29	27	0.07	0.0	310	84
1-28-70	1.9	4	1	195	13.3	96	4.2	8.1	93							430	80
1-29-70	1.8	4	1	180	13.2	95	2.8	8.2	95	197	126					330	108

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
1-30-70	1.4	30	1	180	13.7	97	2.6	8.1	93		130					1,300	108
1-31-70	1.7	150	1	170			5.6	7.7	57		126					120,000	
Jan.Avg.	1.6	12	1	185	13.2	95	3.1	8.1	90	185	127	30	27	0.11	0.0	4,838	60
Max.	1.9	150	3	220	13.9	99	5.6	8.2	96	211	138	33	32	0.20	0.0	120,000	108
Min.	1.3	2	0	170	12.2	87	1.1	7.7	57	158	120	29	24	0.07	0.0	10	16
2-1-70	1.6	95	1	280			3.3	7.9	72								
2-2-70	1.8	40	1	295	12.7	91	1.5	8.1	84		126					26,000	805
2-3-70	1.4	110	1	289	13.8	98	1.8	8.0	84	180	122	29	21	1.03		16,000	112
2-4-70	1.4	50	1	334	13.5	96	2.4	8.0	88							18,000	200
2-5-70	1.6	35	1	327	13.6	97	2.6	7.8	77	218	144					400	
2-6-70	1.5	30	1	320	13.7	98	2.7	7.8	85		134					3,200	
2-7-70	1.5	25	1	311	14.0	100	1.8	8.1	91		130					4,900	164
2-8-70	2.0	20	1	314			1.3	8.0	83							2,000	
2-9-70	1.8	10	1	280	13.2	95	0.9	8.0	85		122						
2-10-70	1.9	10	1	298	13.9	100	1.0	8.1	89	179	126	29	22	0.17	0.0	930	140
2-11-70	1.6	10	1	298	13.9	99	1.0	8.1	88		124					350	260
2-12-70	1.5	15	1	293	13.9	99	1.6	7.9	89		124					140	
2-13-70	1.9	15	1	327	13.5	97	3.4	7.9	84		136					290	212
2-14-70	1.6	10	1	284	13.3	95	2.0	8.0	87		128					7,500	
2-15-70	1.5	9	1	286			1.6	8.2	89							2,800	
2-16-70	1.4	7	1	289	14.1	100	1.3	8.0	90		128						
2-17-70	1.5	8	1	295	14.1	101	1.0	8.0	83	183	128	30	22	0.12		280	204
2-18-70	2.0	10	2	284	13.6	98	2.3	8.0	92		128					410	172
2-19-70	1.8	6	1		13.8	99	1.6	8.1	89		132					980	192
2-20-70	1.9	9	1	298	13.8	99	2.7	7.9	89							330	
2-21-70	1.8	7	2	325	13.7	98	3.3	8.2	92		126					1,400	240
2-22-70	2.6	10	1	343			3.4	7.9	87							800	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
2-23-70	2.1	6	1	332	13.8	100	2.4	8.0	91		126					450	216
2-24-70	2.1	7	1	314	13.8	100	2.7	8.0	96	177	132	31	23	0.16	0.0	1,200	252
2-25-70	1.7	90	1	306	13.2	95	2.0	8.0	86		132					1,500	432
2-26-70	1.7	40	1	298	14.1	101	1.4	8.0	94		142					120	264
2-27-70	1.5	100	1	306	14.1	101	0.9	8.1	94		138					640	524
2-28-70	1.4	25	1	308	14.1	100	0.7	8.2	93		136					110	
Feb.Avg.	1.7	29	1	305	13.7	99	2.0	8.0	88	187	130	30	22	0.37		3,629	274
Max.	2.6	110	2	343	14.1	101	3.4	8.2	96	218	144	31	23	1.03	0.0	26.000	805
Min.	1.4	6	1	280	12.7	91	0.7	7.8	72	148	122	29	21	0.12	0.0	110	112
3-1-70	1.7	20	1	306			0.7	8.3	90								
3-2-70	1.8	15	1	360	14.3	103	0.9	8.2	97		142	36	25	0.24		10	460
3-3-70	2.0	10	1	314	14.3	103	0.8	8.2	96		136					20	564
3-4-70	2.9	7	1	306	14.4	107	0.7	8.2	91	189	132					2	608
3-5-70	2.4	7	1	307	14.5	106	0.6	8.1	92		128					18	592
3-6-70	3.0	20	1	334	14.2	105	3.4	8.1	96		126					3,600	528
3-7-70	2.5	8	1	312	14.3	105	1.6	8.1	90		128					770	
3-8-70	2.5	10	1	312			0.8	8.0	90								
3-9-70	2.9	20	1	311	13.7	101	2.2	8.1	88		128					580	760
3-10-70	2.5	15	2	322	13.4	98	1.6	8.0	87	185	134	35	25	0.23		750	552
3-11-70	2.2	7	1	315	13.8	100	1.0	8.2	93		128					80	596
3-12-70	2.3	6	1	292	13.6	99	1.0	8.2	94		124					340	212
3-13-70	2.1	5	1	305	13.6	99	0.9	8.2	91		126					370	304
3-14-70	2.0	5	1	303	13.9	100	0.9	8.3	88		126					190	
3-15-70	2.0	5	1	303			1.2	8.3	88								
3-16-70	1.9	5	1	294	14.0	101	1.3	8.3	86		132					140	516
3-17-70	2.0	4	1	296	13.8	100	1.5	8.4	92		132					220	472
3-18-70	1.7	3	2	310	14.2	102	1.1	8.3	87		124					50	304

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
3-19-70	1.7	3	1	281	14.6	105	0.6	8.4	83	184	120	31	22	0.08		24	212
3-20-70	1.9	3	1	322	14.7	106	0.8	8.5	91		126					34	432
3-21-70	1.9	8	1	293	13.9	100	0.8	8.4	87		118					47	
3-22-70	2.1	3	1	294			0.8	8.3	84								
3-23-70	2.3	25	1	292	13.5	98	0.8	8.5	86		116					370	1,132
3-24-70	2.7	10	1	290	14.4	106	0.6	8.4	89	184	124	31	22	0.15		210	604
3-25-70	2.9	6	1	295	13.5	100	1.3	8.4	88		128					250	436
3-26-70	3.3	70	1	311	13.5	101	1.6	8.5	89		132					620	1,684
3-27-70	3.1	65	1	304			1.2	8.4	90								
3-28-70	3.2	15	1	265	12.9	96	0.9	8.1	88		124					510	
3-29-70	3.1	20	1	309			1.9	8.0	82								
3-30-70	2.5	15	2	294	13.3	97	1.5	8.2	84		130					200	996
3-31-70	3.0	20	1	305	12.8	95	1.7	8.4	88		128					1,300	400
Mar.Avg.	2.4	14	1	305	13.9	103	1.2	8.3	89	185	128	33	24	0.18		428	589
Max.	3.3	70	2	360	14.7	107	3.4	8.5	97	189	142	36	25	0.24		5,600	1,684
Min.	1.7	3	1	265	12.8	95	0.6	8.0	82	184	116	31	22	0.08		2	212
4-1-70	3.4	15	1	317	12.7	95	2.2	8.4	86		128					260	460
4-2-70	3.5	140	1	316	12.3	92	2.1	8.4	86	159	128	31	26	0.70	0.0	2,800	1,140
4-3-70	3.8	75	1	300	12.3	93	1.1	8.2	91		122					2,200	504
4-4-70	3.6	45	1	317	12.2	92	1.1	8.1	87		124					6,300	
4-5-70	4.5	50	1	318			7.0	8.0	82								
4-6-70	4.3	35	1	308	12.0	92	1.4	8.0	88		130					3,700	356
4-7-70	4.6	75	1	329	11.9	92	1.2	8.0	88	226	128	29	25	0.90		1,700	620
4-8-70	5.0	45	1	292	12.1	94	1.5	8.1	85		130					1,000	360
4-9-70	5.5	30	1		12.0	95	2.0	8.2	90		132					330	736
4-10-70	7.0	45	1	345	11.0	90	1.7	8.1	88		146					820	
4-11-70	5.3	20	1	280	11.7	92	1.6	8.2	86		132					150	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
4-12-70	5.7	15	1	308			2.9	8.2	86								
4-13-70	6.3	20	1	311	11.1	89	2.9	8.2	92		132					870	440
4-14-70	6.0	20	1	310	11.9	95	1.9	8.1	90	203	126	31	26	0.34	0.0	260	296
4-15-70	5.5	16	1	300	11.8	93	1.6	8.1	90		128					40	456
4-16-70	6.1	15	1	322	11.7	94	2.2	8.1	88		132					550	232
4-17-70	6.7	15	1	333	11.7	95	2.7	8.1	88		132					330	188
4-18-70	6.7	10	1	339	11.2	91	2.8	8.1	89		130					470	
4-19-70	8.0	15	1	336			3.2	8.1	87								
4-20-70	7.7	65	1	332	11.7	98	2.2	8.1	91		128					170	424
4-21-70	8.4	70	1	312	11.0	93	1.8	8.1	87	229	136	31	26	1.21		520	724
4-22-70	8.8	20	1				1.5	8.0	94							280	
4-23-70	9.3	20	1	343	10.7	93	1.7	8.0	93		144					850	
4-24-70	9.4	15	1				1.6	8.1	90		138					410	
4-25-70	9.6	10	1				1.3	8.2	91							690	
4-26-70	10.6	15	0				1.1	8.3	89								
4-27-70	10.3	10	1	335	11.2	99	1.2	8.2	88		138					1,100	
4-28-70	10.1	9	1	306	11.2	99	1.2	8.1	87		132		24			580	
4-29-70	10.6	9	1	295	11.4	102	1.0	8.3	88		124					310	684
4-30-70	11.6	7	1	304	12.2	111	1.1	8.5	90		126					71	1,812
Apr.Avg.	6.9	32	1	316	11.7	95	2.0	8.2	89	204	131	31	25	0.79	0.0	1,029	540
Max.	11.6	140	1	345	12.7	111	7.0	8.5	94	229	146	31	26	1.21	0.0	6,300	1,140
Min.	3.4	7	0	280	10.7	90	1.0	8.0	82	159	122	29	24	0.34	0.0	10	188
5-1-70	13.8	10	1	290	13.2	127	1.2	8.8	90		128					70	632
5-2-70	13.4	20	1	324	11.9	114	1.2	8.7	91		132					190	
5-3-70	13.4	25	1	365			1.3	8.6	94								
5-4-70	11.8	8	1	302	10.8	99	0.9	8.6	92		138					73	580
5-5-70	11.8	8	1	322	11.6	106	1.0	8.6	89	189	130	32	23	0.16	0.0	26	612

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
5-6-70	11.2	55	1	309	11.4	103	0.9	8.6	88		134					71	660
5-7-70	11.0	15	1	300	11.1	100	0.8	8.5	88		130					30	376
5-8-70	12.1	15	1				0.9	8.5	88		126					30	
5-9-70	12.8	15	1	312	10.0	94	0.9	8.5	93		130					27	
5-10-70	14.2	10	1	323			1.0	8.6	91								
5-11-70	14.7	9	1	326	10.0	98	1.3	8.8	92		140					35	604
5-12-70	13.9	8	1	325	9.8	94	1.1	8.6	96	203	138	34	24	0.18		300	732
5-13-70	14.6	7	1	310	10.3	101	1.0	8.7	94		136					180	364
5-14-70	13.8	10	1	313	10.0	96	1.1	8.6	92		128					130	396
5-15-70	13.6	8	1	311	10.2	98	2.0	8.6	94		128					95	300
5-16-70	13.7	7	1	309	10.0	96	1.0	8.5	90		124					330	
5-17-70	14.0	25	1	316			0.9	8.4	88								
5-18-70	14.7	8	1	310	10.1	99	1.2	8.4	92		128					180	256
5-19-70	14.6	6	1	312	9.7	95	1.1	8.6	92	272	128	31	21	0.13	0.0	110	372
5-20-70	16.2	7	1	315	10.1	102	1.1	8.7	91		130					55	704
5-21-70	15.4	6	1	318	9.4	93	1.0	8.6	92		134					77	512
5-22-70	18.1	4	1	308	10.4	109	1.3	8.9	94		130					36	236
5-23-70	17.5	5	1	302	9.5	98	1.2	8.8	93		134					160	
5-24-70	14.5	5	1	301			1.3	8.4	93								
5-25-70	15.9	4	1	312	8.2	82	1.4	8.4	94		132					100	308
5-26-70	17.4	30	1	311	8.4	87	1.3	8.4	92		132					110	504
5-27-70	18.2	60	1	325	8.6	90	1.8	8.3	93	214	138	33	20	0.84		9,700	204
5-28-70	17.9	15	1	312	7.6	79	2.0	8.4	91		134					1,000	180
5-29-70	18.0	15	1	305	7.7	80	1.7	8.4	92		126					730	148
5-30-70	17.3	15	1	307	7.1	73	1.8	8.3	89		130					220	
5-31-70	18.2	8	1	309			1.5	8.2	90								
May Avg.	14.8	14	1	313	9.9	97	1.2	8.5	92	220	131	33	22	0.33	0.0	541	434
Max.	18.2	60	1	365	13.2	127	2.0	8.9	96	272	140	34	24	0.84	0.0	9,700	732
Min.	11.0	4	1	290	7.1	73	0.8	8.2	88	189	124	31	20	0.13	0.0	26	148

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T.Fe	T. Mn	T. Coli.	Plankton
6-1-70	18.5	7	1	305	7.5	79	1.6	8.3	93		132					280	68
6-2-70	19.6	8	1	311	7.3	79	1.6	8.4	95	214	132	30	23	0.58		540	72
6-3-70	19.3	20	0	312	7.5	81	2.0	8.2	93		130					330	134
6-4-70	18.7	15	1	309	7.0	74	2.4	8.3	93		128					930	112
6-5-70	17.9	10	1	282	7.2	75	1.6	8.4	90		122					270	
6-6-70	17.8	10	1	300	7.2	75	1.7	8.4	89		124					750	
6-7-70	18.0	8	1	305			1.9	8.2	88								
6-8-70	19.6	6	1	294	7.8	84	1.3	8.4	88		122					260	76
6-9-70	20.6	7	1	308	8.1	89	1.2	8.6	92	189	124	28	20	0.27	0.0	290	76
6-10-70	20.2	6	1	289	8.2	90	1.4	8.4	91		124					170	76
6-11-70	20.8	4	1		8.6	95	1.6	8.5	91		124					90	100
6-12-70	20.0	5	1		7.9	86	1.7	8.4	91		124					40	88
6-13-70	19.3	5	1	294	5.7	61	2.1	8.1	89		122					25	
6-14-70	18.7	10	1	296			2.1	8.1	90								
6-15-70	19.5	8	1	297	6.0	65	1.8	8.1	86		126	28	21	0.18		370	84
6-16-70	20.3	6	1	297	6.0	66	1.7	8.1	91	251	124	28	21	0.18	0.0	610	112
6-17-70	22.1	5	1	294	5.4	61	2.2	8.1	89		122					190	124
6-18-70	22.7	6	1	292	6.7	77	2.4	8.4	89		118					70	92
6-19-70	22.9	50	2	296	5.7	65	2.5	8.1	91		122					95	184
6-20-70	22.4	15	1	300	6.0	68	1.9	8.1	88		126					60	
6-21-70	21.1	6	1	272			1.8	8.2	86								
6-22-70	20.8	9	1	291	6.5	72	2.0	8.0	89		120					2,100	92
6-23-70	21.2	5	0	280	7.5	83	1.3	8.3	89	174	120					3,200	108
6-24-70	21.4	6	1	289	7.5	84	1.4	8.4	88		120	26	20	0.12		650	100
6-25-70	21.3	15	1	292	7.2	80	1.6	8.3	88		120					1,400	132
6-26-70	21.0	10	1	294	6.5	72	1.9	8.1	86		122					2,300	128
6-27-70	20.5	40	1	286	7.1	78	1.9	8.4	88		120					430	
6-28-70	21.1	7	1	292			1.4	8.1	87								
6-29-70	21.0	15	1	286	6.3	70	1.4	8.3	87		124					360	152
6-30-70	21.8	8	1	292	7.1	80	1.2	8.4	86		122					1,800	276

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
June Avg.	20.4	11	1	295	7.0	77	1.8	8.3	89	207	124	28	21	0.29	0.0	676	114
Max.	22.9	50	2	312	8.6	95	2.5	8.6	95	251	132	30	23	0.58	0.0	3,200	276
Min.	17.8	4	0	272	5.4	61	1.2	8.0	86	174	118	26	20	0.12	0.0	25	68
7-1-70	22.0	5	1	291	7.7	87	1.5	8.4	87	237	120	27	20	0.15	0.0	2,300	256
7-2-70	24.1	4	1	281	10.3	121	1.7	8.8	85		118					1,700	264
7-3-70	24.4	3	1	288	9.0	106	1.9	8.7	84		114					1,500	268
7-4-70	25.0	9	2	266	9.1	108	2.5	8.6	77		112					500	
7-5-70	24.0	10	1	276			2.4	8.2	78								
7-6-70	23.5	8	1	278	5.9	68	2.3	8.4	84		116	33	19	0.20		2,500	128
7-7-70	23.5	4	1	276	6.0	69	2.1	8.5	86	170	118					13,000	76
7-8-70	23.5	4	1	282	5.3	61	2.1	8.4	84		118					7,500	52
7-9-70	22.4	3	1	283	5.4	61	2.0	8.2	85		118					2,100	32
7-10-70	22.8	3	0	286	5.3	61	1.6	8.1	88		120					4,500	72
7-11-70	22.6	3	1	287	6.3	72	1.3	8.2	84		120					950	
7-12-70	23.4	2	1	289			1.2	8.2	88								
7-13-70	22.8	3	1	284	5.9	68	1.4	8.2	86		120					3,400	64
7-14-70	23.2	2	0	289	6.8	78	1.3	8.3	87	171	122	28	20	0.11	0.0	4,500	112
7-15-70	23.9	2	1	288	6.7	78	1.5	8.5	87		118					1,400	208
7-16-70	23.5	55	1	298	6.1	71	2.1	8.2	88		128					2,300	272
7-17-70	24.1	10	1	288	5.8	68	1.7	8.1	90		122					4,000	288
7-18-70	24.3	3	1	288	5.9	69	1.7	8.1	87		120					2,000	
7-19-70	23.3	4	1	292			1.5	8.2	90								
7-20-70	23.1	25	1	310	6.2	71	1.5	8.3	92		122					3,700	268
7-21-70	22.0	25	1	286	6.6	74	1.4	8.2	87	194	122	27	21	0.34		7,900	200
7-22-70	22.5	8	1	295	6.6	75	1.4	8.2	90		120					1,300	280
7-23-70	22.3	4	1	299	6.5	74	1.4	8.1	90		122					900	148
7-24-70	22.6	4	0	297	6.7	76	1.3	8.2	90		124					1,900	196
7-25-70	23.2	3	1	296	7.7	89	1.1	8.4	90		124					1,200	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
7-26-70	23.2	3	0	296			1.4	8.5	90								
7-27-70	23.9	3	1	290	7.8	91	1.3	8.8	90		122					2,400	364
7-28-70	24.4	2	1	279	9.9	116	1.4	8.9	85		116					800	204
7-29-70	25.0	2	0	278	9.7	115	1.3	8.8	83	183	118	27	22	0.09	0.0	270	168
7-30-70	24.8	2	1	275	9.8	116	1.3	8.8	85		116					150	146
7-31-70	25.4	2	1	281	8.6	103	1.4	8.6	84		116					160	412
July Avg.	23.3	7	1	287	7.1	83	1.6	8.4	86	191	119	28	20	0.18	0.0	2,606	195
Max.	25.4	55	2	310	10.3	121	2.5	8.9	92	237	128	33	22	0.34	0.0	13,000	412
Min.	22.0	2	0	266	5.3	61	1.1	8.1	77	170	112	27	19	0.09	0.0	150	32
8-1-70	25.8	2	2	295	8.2	99	1.6	8.7	84		116					500	
8-2-70	26.1	10	14				1.9	8.7	85								
8-3-70	26.1	6	8	283	7.0	85	2.5	8.8	87	204	118	27	23	0.14		630	1,700
8-4-70	25.3	7	6	285	6.8	81	2.4	8.7	84		120					1,800	1,142
8-5-70	24.8	4	4	290	7.6	90	2.1	8.8	84		118					1,700	724
8-6-70	24.6	4	2	290	7.0	83	2.6	8.7	85		118					770	348
8-7-70	24.5	3	3	293	7.2	85	2.1	8.7	86		118					930	340
8-8-70	24.5	3	2	296	5.9	70	2.4	8.4	86		122					900	
8-9-70	24.3	4	1	295			2.3	8.3	88								
8-10-70	24.3	5	1	292	7.0	82	2.3	8.4	88		124					430	320
8-11-70	23.9	4	1	306	6.2	72	2.3	8.3	89	195	122	25	25	0.12		820	164
8-12-70	24.8	3	1	297	9.3	110	1.5	8.6	90		122					870	692
8-13-70	25.5	3	1	289	9.4	113	1.3	8.8	80		116					570	232
8-14-70	25.7	2	0	298	8.7	105	1.4	8.9	86		118					130	268
8-15-70	25.3	2	1	283	8.8	105	1.3	8.7	84		120					200	
8-16-70	25.6	1	1	295			1.4	8.7	84								
8-17-70	25.5	4	1	288	8.0	96	1.6	8.7	81		118					350	276
8-18-70	25.4	3	1	290	7.7	92	1.1	8.6	82	164	118	27	24	0.08	0.0	320	
8-19-70	25.5	6	1	290	7.4	89	1.4	8.6	85		120					250	316

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
8-20-70	25.5	5	1	288	6.9	83	1.3	8.6	88		118					190	240
8-21-70	25.2	4	1	296	6.9	82	1.3	8.6	86		120					190	320
8-22-70	24.8	4	1	295	7.1	84	1.2	8.5	87		122					260	
8-23-70	24.6	4	1	295			1.3	8.6	88								
8-24-70	24.2	7	1	298	7.9	93	1.3	8.7	86		120					230	536
8-25-70	24.4	5	1	292	8.6	101	1.4	8.8	86	221	120	27	28	0.10		93	276
8-26-70	24.3	4	1	295	7.0	82	1.5	8.7	88		122					290	244
8-27-70	24.8	3	2	297	7.7	91	1.5	8.7	86		122					110	276
8-28-70	25.1	4	2	293	8.0	95	1.3	8.9	86		122					550	280
8-29-70	25.2	4	2	296	7.9	94	1.5	8.8	84		120					450	
8-30-70	25.0	3	2	300			1.8	8.5	87								
8-31-70	24.7	20	1	299	7.5	89	1.8	8.7	86		122	28	24	0.15		100	528
Aug.Avg.	25.0	5	2	293	7.6	91	1.7	8.7	86	196	120	27	25	0.12	0.0	545	461
Max.	26.1	20	14	306	9.4	113	2.6	8.9	90	221	124	28	28	0.15	0.0	1,800	1,700
Min.	23.9	1	0	283	5.9	70	1.1	8.3	80	164	116	25	23	0.08	0.0	93	164
9-1-70	24.3	6	2	295	7.4	87	1.6	8.8	88		124					240	388
9-2-70	24.0	4	1	298	7.1	83	1.8	8.6	87		124					630	292
9-3-70	23.7	6	1	303	7.5	87	1.7	8.7	87		120					680	232
9-4-70	23.8	20	1	291	8.2	95	1.6	8.8	87		122					290	456
9-5-70	23.8	9	1	296	7.7	90	1.6	8.7	90		122					280	
9-6-70	23.7	5	1	298			1.4	8.6	89								
9-7-70	23.3	3	1	301			1.5	8.5	91								
9-8-70	23.1	6	1	299	7.9	91	1.3	8.4	92	209	128	25	25	0.16		490	184
9-9-70	23.4	4	2	304	8.3	96	1.3	8.7	85		124					410	200
9-10-70	23.3	25	1	303	7.9	91	1.5	8.6	89		124					460	432
9-11-70	22.8	20	1	303	7.3	84	1.4	8.4	89		124					420	572
9-12-70	22.6	7	1	302	7.6	87	1.4	8.5	93		118					590	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
9-13-70	22.4	7	1	290			1.5	8.5	93								
9-14-70	21.8	10	1	310	7.7	87	1.3	8.2	90		126					1,200	260
9-15-70	21.7	15	0	291	7.5	84	1.1	8.2	90	197	126	26	26	0.27	0.0	240	280
9-16-70	21.8	20	1	300	7.3	82	1.2	8.2	94		124					380	836
9-17-70	21.8	10	1	307	7.4	83	1.1	8.1	92		126					1,100	248
9-18-70	21.8	10	1	302	8.0	90	1.8	8.2	94		122					530	308
9-19-70	21.5	8	1	306	8.1	91	0.7	8.2	90		122					250	
9-20-70	21.5	45	1	306			1.3	8.0	89								
9-21-70	22.0	7	1	302	8.9	100	1.1	8.3	92		124					330	316
9-22-70	22.6	10	1	290	9.1	104	1.0	8.5	87	191	126	25	25	0.18		340	408
9-23-70	22.9	8	0	290	8.9	102	1.1	8.5	92		124					190	388
9-24-70	23.1	7	0	299	8.2	94	1.1	8.4	94		124					220	348
9-25-70	23.4	7	0	291	8.3	96	1.1	8.4	92		126					190	288
9-26-70	23.3	7	0	289	8.2	95	1.1	8.4	95		124					320	
9-27-70	22.2	30	0	290			1.3	8.4	90								
9-28-70	21.2	45	0	290	8.5	95	1.2	8.4	92		122					1,300	604
9-29-70	20.0	15	2	284	7.9	86	1.1	8.2	87	164	124	26	24	0.32	0.0	390	436
9-30-70	19.6	10	1	289	8.3	90	1.1	8.2	87		126					930	340
Sept.Avg.	22.5	12	1	297	8.0	91	1.3	8.4	90	190	124	26	25	0.23	0.0	496	344
Max.	24.3	45	2	310	9.1	104	1.8	8.8	95	209	128	26	26	0.32	0.0	1,300	604
Min.	19.6	3	0	284	7.1	83	0.7	8.0	85	164	118	25	24	0.16	0.0	190	184
10-1-70	19.5	10	1	283	8.2	88	1.0	8.2	89		120					770	268
10-2-70	19.6	10	1	303	8.2	89	1.2	8.1	84		120					1,000	320
10-3-70	18.8	9	1	286	8.7	93	1.2	8.6	90		124					1,100	
10-4-70	18.0	40	1	292			1.1	8.2	87								
10-5-70	17.1	15	1	294	9.0	93	0.8	8.2	86		122					320	168
10-6-70	17.1	10	1	288	9.2	95	0.7	8.3	87	165	122	27	24	0.20		350	224
10-7-70	18.0	5	1	285	9.2	97	0.8	8.4	87		120					250	160

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
10-8-70	17.9	7	0	292	9.8	103	0.9	8.5	86		120					470	180
10-9-70	18.2	5	1	280	9.5	100	0.9	8.4	85		122					360	144
10-10-70	18.3	15	1	280	9.7	102	0.9	8.5	89		122					540	
10-11-70	18.0	5	1	279			1.0	8.5	89								
10-12-70	17.7	6	1	292	9.2	96	0.8	8.5	89		120					940	340
10-13-70	17.8	4	0	280	8.6	90	0.7	8.5	88	194	120	26	24	0.14	0.0	490	168
10-14-70	17.9	4	1	287	9.6	101	0.8	8.5	89		122					1,700	140
10-15-70	17.9	15	1	287	9.0	94	1.0	8.4	89		122					4,500	224
10-16-70	17.0	30	1	280	9.2	95	1.3	8.3	90		120					870	398
10-17-70	15.7	20	1	286	9.1	91	0.7	8.2	86		122					1,200	
10-18-70	15.0	25	1	296			0.7	8.3	90								
10-19-70	15.4	10	1	290	9.8	98	0.6	8.4	90		122					700	
10-20-70	15.5	7	1	290	9.9	99	0.6	8.4	90	219	122	25	24	0.14		790	228
10-21-70	15.4	10	1	301	9.5	95	0.9	8.3	90		122					4,200	244
10-22-70	15.6	5	1		9.6	96	0.7	8.3	89		122					220	168
10-23-70	15.4	6	1	293	10.1	101	0.6	8.4	87		122					200	
10-24-70	15.4	4	1	292	9.9	99	1.2	8.3	88		122					810	
10-25-70	15.6	6	1	293			1.7	8.3	88								
10-26-70	15.4	6	0	298	9.5	95	1.1	8.5	89		124					1,300	360
10-27-70	15.4	5	1	289	10.0	100	0.9	8.4	86		124					750	226
10-28-70	15.1	7	1	289	10.1	100	0.8	8.4	85	165	120	25	22	0.09	0.0	910	272
10-29-70	14.8	6	1	281	9.8	97	0.9	8.4	89		116					1,200	204
10-30-70	14.7	5	1	296	9.2	91	0.9	8.3	87		122					1,200	192
10-31-70	14.6	4	1	288	9.4	92	0.7	8.4	85		122					670	
Oct.Avg.	16.7	10	1	289	9.4	95	0.9	8.4	88	186	121	26	24	0.14	0.0	1,030	231
Max.	19.6	40	1	303	10.1	103	1.7	8.6	90	219	124	27	24	0.20	0.0	4,500	398
Min.	14.6	4	0	279	8.2	88	0.6	8.1	84	165	116	25	22	0.09	0.0	200	140

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
11-1-70	14.8	4	1	294			0.6	8.4	88								
11-2-70	14.6	9	1	299	9.0	88	1.1	8.4	88		124					1,900	72
11-3-70	14.2	8	1				0.8	8.2	88								
11-4-70	13.7	8	1	286	9.4	91	0.7	8.2	89	185	120	27	23	0.15		400	268
11-5-70	12.8	50	1	298	9.6	91	1.3	8.2	87		122					3,900	764
11-6-70	12.0	25	1	281	10.0	92	1.0	8.2	88		124					910	272
11-7-70	12.3	10	1	264	10.1	94	0.8	8.1	85		124					650	
11-8-70	12.3	8	8	258			0.9	8.1	84								464
11-9-70	12.2	8	4	258	10.5	97	0.8	8.1	78		112					400	304
11-10-70	12.4	7	4	256	10.6	99	0.6	8.3	84	152	114	23	20	0.12	0.0	350	712
11-11-70	12.6	7	4	253	10.6	100	0.7	8.2	85		110					310	304
11-12-70	12.9	5	2	256	10.0	95	1.0	8.1	83		112					83	196
11-13-70	12.5	15	1	282	8.8	83	2.2	7.9	86		116					13,000	300
11-14-70	12.3	20	2	257	10.0	93	0.7	8.1	82		112					690	
11-15-70	11.4	80	2	248			0.8	8.1	79								
11-16-70	10.4	80	2	192	10.4	93	0.6	8.1	79		110					720	
11-17-70	9.7	35	1	263	10.7	94	1.0	8.1	86		106					1,100	292
11-18-70	9.6	30	1	263	10.4	91	1.1	8.1	84	145	114	25	19	0.35		2,000	160
11-19-70	9.5	25	1	270	9.8	86	2.1	8.0	86		124					5,800	226
11-20-70	9.4	55	1	266	10.5	91	1.3	8.0	84		114					1,400	416
11-21-70	9.5	65	1	265	11.2	98	1.4	8.1	87		122					1,800	
11-22-70	9.2	30	2	197			1.8	8.1	86								
11-23-70	8.8	15	3	251	11.6	100	0.9	8.0	85		114					1,400	684
11-24-70	6.1	90	1	252	12.2	98	1.0	8.2	88		114					720	516
11-25-70	5,8	30	1	257	12.2	98	0.9	8.2	85		116					670	
11-26-70	5.4	30	1	256			0.7	8.2	84								
11-27-70	4.8	10	1	256			0.6	8.3	86								
11-28-70	5,7	25	1	259	12.3	98	0.4	8.3	84		116					320	
11-29-70	6.1	20	1	262			0.6	8.3	80								
11-30-70	6.3	20	1	252	12.4	100	0.4	8.2	84		114					200	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES

mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
Nov.Avg	10.3	31	2	260	10.6	94	1.0	8.2	85	161	116	25	21	0.21	0.0	1,760	372
Max.	14.8	115	8	299	12.4	100	2.2	8.4	89	185	124	27	23	0.35	0.0	13,000	764
Min.	4.8	4	1	192	8.8	83	0.4	7.9	78	145	106	23	19	0.12	0.0	83	72
12-1-70	6.7	20	1	263	12.2	100	0.5	8.1	85	203	114	24	21	0.30	0.00	330	64
12-2-70	7.2	25	1	232	12.3	102	0.7	8.2	84		114					1,000	236
12-3-70	7.4	10	1	263	12.2	101	0.5	8.2	83		112					120	164
12-4-70	8.0	90	2	253	11.8	100	0.8	8.3	84		116					3,600	484
12-5-70	7.4	75	1	266	12.1	101	1.1	8.2	85		120					5,000	
12-6-70	5.5	200	2	260			1.1	8.3	88								
12-7-70	4.3	80	1	254	13.2	102	0.8	8.3	85		128					1,100	276
12-8-70	4.9	45	1	261	12.6	99	1.0	8.2	86	171	128	31	21	0.60		3,300	126
12-9-70	4.5	35	1	254	13.2	102	0.8	8.2	89		128					800	220
12-10-70	5.1	30	1	256	13.0	102	0.7	8.3	89		128					330	164
12-11-70	5.3	20	1	256	13.0	103	0.6	8.3	88		128					150	136
12-12-70	4.7	45	1	274	13.1	102	0.7	8.3	86		124					540	
12-13-70	4.3	45	1	274			0.8	8.3	85								
12-14-70	4.8	50	1	275	12.7	99	0.8	8.1	83	169	118	24	21	0.62		2,500	400
12-15-70	3.8	100	2	283	13.0	99	1.0	8.1	86		130					34,000	140
12-16-70	3.4	90	1	288	13.3	100	1.1	8.1	81		130					62,000	104
12-17-70	4.0	90	1	281	13.0	99	0.8	8.1	87		122					11,000	260
12-18-70	3.9	30	1	274	13.2	101	0.8	8.1	88		120					2,400	116
12-19-70	3.9	35	1	282	12.9	98	0.8	8.2	87		126					1,300	
12-20-70	3.5	55	1				1.1	8.1	88								
12-21-70	3.4	35	1	303	13.5	102	1.2	8.2	89		132					4,900	104
12-22-70	3.3	50	1	290	13.3	100	1.0	8.3	88	225	130	31	23	0.80	0.00	6,200	100
12-23-70	3.5	80	1	272	13.2	100	0.8	8.2	88		120					1,600	92
12-24-70	2.8	115	1	280	13.4	99	0.8	8.1	87		126					6,200	124
12-25-70	2.3	50	1	277			1.4	8.2	86								

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
12-26-70	2.0	110	1	288	13.5	98	1.3	8.2	87		126					10,000	
12-27-70	2.0	90	1	285			1.2	8.2	89								
12-28-70	2.0	70	1				1.2	8.1	87							530	
12-29-70	1.7	35	1	301	13.9	100	1.1	8.2	88	200	126	28	21	0.56		530	36
12-30-70	1.7	25	1	274	13.7	99	1.2	8.4	89		132					400	60
12-31-70	1.7	25	1	272	13.8	99	1.2	8.3	89		126					270	16
Dec.Avg.	4.2	59	1	272	13.0	100	0.9	8.2	87	194	124	28	21	0.58	0.00	6,158	163
Max.	8.0	200	2	303	13.9	103	1.4	8.4	89	225	132	31	23	0.80	0.00	62,000	484
Min.	1.7	10	1	232	11.8	98	0.5	8.1	81	169	112	24	21	0.30	0.00	120	16

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake -C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-70	0.6	10		13.3	92	2.6	8.0	96		130		22		0.0	190
1-2-70	0.6	6		12.7	88	2.8	8.0	96		128		23			520
1-3-70	0.6	10		12.8	89	2.5	8.0	94		130		22			720
1-4-70	0.6	9		13.4	93	2.6	8.0	94		128		22			190
1-5-70	0.6	4		13.9	97	2.5	8.0	94	124	126		23		0.0	80
1-6-70	0.6	3		13.9	97	2.2	8.0	96		128	29	25			30
1-7-70	0.6	3		13.4	93	2.6	8.1	96		128		24	0.13		0
1-8-70	0.6	2		13.5	94	2.8	8.0	96	151	134		23			4
1-9-70	0.6	2		13.5	94	3.9	8.1	98		130		30			30
1-10-70	0.6	3		13.3	92	4.1	8.0	100		136		29			100
1-11-70	0.6	5		13.3	92	4.4	8.0	98		136		31	0.33		590
1-12-70	0.6	1		13.5	94	4.4	8.0	98	154	136		30			90
1-13-70	0.6	2		13.5	94	4.4	8.0	94		128	31	30	0.12		1,120
1-14-70	0.6	2		13.4	93	4.8	8.0	100		136		29		0.02	540
1-15-70	0.6	2		13.2	92	4.3	8.0	96		128		30			1,030
1-16-70	0.6	2		13.4	93	4.3	8.0	94		124		22			80
1-17-70	0.6	2		13.5	94	1.8	8.1	94		128		24			120
1-18-70	0.6	2		13.2	92	2.0	8.1	94		130		23			600
1-19-70	0.6	1		13.3	92	2.8	8.0	96	161	126		26			150
1-20-70	0.6	1		13.2	92	2.4	8.0	94		132	31	27			165
1-21-70	0.6	2		13.4	93	2.8	8.0	96		124		26		0.01	570
1-22-70	0.6	1		13.7	95	3.8	8.0	96		124		25			370
1-23-70	0.6	1		13.7	95	2.6	8.0	96		124		27			180
1-24-70	0.6	1		13.5	94	2.6	8.0	98		128		23			670
1-25-70	0.6	1		13.2	92	2.8	8.0	96		128		23			230
1-26-70	0.6	1		13.9	97	2.6	8.0	96	142	128	25	27			80
1-27-70	0.6	1		13.5	94	2.7	8.0	96		128		24	0.05		740
1-28-70	0.6	1		13.4	93	2.6	8.0	98		126		23			300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - 01801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-29-70	0.6	1		13.8	96	3.2	8.0	96		120		23			530
1-30-70	0.6	5		13.6	95	2.5	8.0	94		128		24		0.0	1,450
1-31-70	0.6	15		13.0	90	4.5	7.8	94		128		23			3,300
Jan. Avg.	0.6	3		13.4	95	3.1	8.0	96	146	129	29	25	0.16	0.006	476
Max.	0.6	15		13.8	97	4.8	8.1	100	161	136	31	31	0.33	0.02	3,300
Min.	0.6	1		12.7	88	1.8	7.8	94	124	120	25	22	0.05	0.00	0
2-1-70	0.6	20		13.0	90	4.0	7.8	96		130		23			1,780
2-2-70	0.6	20		13.5	94	3.9	8.0	88	226	124		23	0.70		5,100
2-3-70	0.6	35		13.7	95	3.9	8.1	92		122		24			3,430
2-4-70	0.6	20		13.8	96	3.4	8.0	92		124	33	23		0.0	2,120
2-6-70	0.6	10		13.1	91	3.1	8.0	90		138		20			320
2-7-70	0.6	8		13.2	92	2.8	8.0	90		132		20	0.25		210
2-8-70	0.6	7		13.2	92	2.8	8.0	92		130		21			1,200
2-9-70	0.6	7		13.2	92	2.6	8.1	92		132		21			1,840
2-10-70	0.6	7		14.1	98	2.8	8.1	92	145	136		25			1,920
2-11-70	0.6	8		14.1	98	3.1	8.1	94		134		25			280
2-12-70	0.6	5		13.7	95	3.2	8.1	96		124		24			740
2-13-70	0.6	6		13.8	96	3.0	8.1	92		126	28	22		0.01	460
2-14-70	1.0	5		13.6	96	3.1	8.1	94		128		23			280
2-15-70	0.6	5		13.9	97	3.1	8.1	92		128		22			730
2-16-70	0.6	5		13.8	96	3.2	8.1	92	210	128	29	23			440
2-17-70	0.6	4		13.6	95	3.1	8.1	94		132		24	0.20		490
2-18-70	0.6	4		13.5	94	2.8	8.1	92		128		25			340
2-19-70	0.6	4		13.7	95	3.3	8.1	90		122		28			440
2-20-70	0.6	4		13.9	97	3.0	8.2	92		126		22			450
2-21-70	0.6	4		13.8	96	2.4	8.1	92		128		23			510

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake -C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-22-70	0.6	4		13.9	97	2.9	8.1	92		128		22			1,140
2-23-70	0.6	3		13.9	97	3.1	8.2	92		128	27	23		0.0	260
2-24-70	0.6	2		14.3	99	2.7	8.2	90		120		23	0.10		30
2-25-70	0.6	20		14.1	98	2.8	8.3	94	156	130		21			
Feb. Avg.	0.6	9		13.7	97	3.1	8.1	92	184	128	29	23	0.31	0.003	1,066
Max.	1.0	35		14.3	99	4.0	8 3	96	226	138	33	28	0.70	0.010	5,100
Min.	0.6	2		13.0	90	2.4	7.8	88	145	120	27	20	0.10	0.000	30
3-1-70	0.6	8		13.6	95	1.6	8.0	94		128	23	23			2,060
3-2-70	0.6	5		13.8	96	1.6	8.3	92	174	134		23		0.0	170
3-3-70	0.6	5		14.3	99	1.6	8.1	90		128	30	25	0.05		180
3-4-70	0.6	4		14.3	99	1.7	8.2	96		136		22			920
3-5-70	1.0	5		14.1	99	1.6	8.2	96		132		22		0.0	410
3-6-70	1.0	4		14.2	100	1.8	8.2	96		130		21			100
3-7-70	1.0	6		14.0	98	1.6	8.2	96		136		20			90
3-8-70	1.0	10		13.8	97	1.7	8.2	90		140		21			2,670
3-9-70	1.0	2		14.3	101	1.6	8.3	90		138		21	0.10		30
3-10-70	0.6	2		14.2	99	1.6	8.2	88	138	142		21			0
3-11-70	0.6	1		14.1	98	1.7	8.2	88		144		22		0.10	0
3-12-70	1.0					1.9									
3-13-70	1.6	2		13.2	94	1.6	8.3	94		130	26	22			230
3-14-70	1.5	2		13.8	98	1.6	8.3	94		134		23	0.10		110
3-15-70	1.5	2		13.7	98	1.6	8.3	94		138		22			750
3-16-70	1.5	3		13.9	99	1.8	8.3	90	103	126		24			1,140
3-17-70	1.5	2		14.2	101	1.8	8.5	92		124		23			120
3-18-70	1.6	2		14.4	103	1.7	8.5	90		136		23			3,400
3-19-70	1.6	2		14.2	102	1.7	8.4	92		140		22			740
3-20-70	1.6	2				1.9	8.3	90		134	27	20			190

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake -C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
															30
3-21-70	1.6	4		14.0	100	1.8	8.3	90		136		21			70
3-22-70	1.6	2		14.2	102	2.0	8.3	92		138		20			770
3-23-70	1.5	12		14.0	100	2.5	8.3	92	162	130		22			360
3-24-70	1.5	5		14.0	100	3.0	8.3	92		134		21			110
3-25-70	1.5	2		13.9	99	2.7	8.4	92		134		21			
3-26-70	1.5	9		13.9	99	2.6	8.3	90		140		22			280
3-27-70	1.5	45		13.5	96	2.7	8.5	88		132	28	21		0.0	510
3-28-70	1.6	15		13.4	96	2.2	8.4	90		134		21			130
3-29-70	1.6	25		13.0	93	2.2	8.4	92		136		21			400
3-30-70	1.6	20		13.0	93	2.4	8.3	94	173	138		21			
3-31-70	1.6	20		13.5	96	2.5	8.1	90				20	0.25		
Mar. Avg.	1.3	8		**13.9**	99	1.9	8.3	92	150	135	27	22	0.13	0.03	570
Max.	1.6	45		**14.4**	103	3.0	8.5	96	174	144	30	25	0.25	0.10	3,400
Min.	0.6	1		13.0	93	1.6	8.0	88	103	124	23	20	0.05	0.00	0
															100
4-1-70	1.6	10		13.0	93	2.4	8.1	94		134		20			440
4-2-70	1.6	30		13.0	93	2.5	8.1	90		134		21			290
4-3-70	1.6	45		13.1	94	2.8	8.0	92		132	25	21			320
4-4-70	2.8	35		12.6	93	2.7	8.1	86		138		22			360
4-5-70	2.8	2		12.3	91	2.8	8.1	88		142		23			280
4-6-70	3.3	15		12.2	91	2.8	8.1	86		142		23			590
4-7-70	3.9	20		12.4	94	2.8	8.1	90		140		23			1,270
4-8-70	3.8	10		12.2	92	2.8	8.1	92		132		23	0.32		520
4-9-70	5.0	15		12.0	94	2.9	8.0	92		142		24			330
4-10-70	5.0	20		11.8	92	2.5	8.0	90		142	35	24		0.0	300
4-11-70	5.0	15		11.9	93	3.1	8.0	92		138		24			40
4-12-70	5.0	10		11.8	92	3.0	8.1	90		136		23			

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake -C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-13-70	5.0	20		11.6	91	3.0	8.0	90	226	136		23			180
4-14-70	5.0	15		11.5	90	3.1	8.1	90		134		24	0.34		340
4-15-70	5.0	10		11.8	92	3.1	8.0	90		136		26			60
4-16-70	5.0	9		12.0	94	2.4	8.0	90		142		25			20
4-17-70	5.0	7		11.8	92	2.8	7.9	92		134	21	24		0.0	55
4-18-70	5.0	7		12.1	94	3.3	8.1	94		136		25			190
4-19-70	5.0	10		12.1	94	2.9	8.0	90		134		25			380
4-20-70	6.1	25		12.0	96	4.1	8.0	92	134	134		24			1,980
4-21-70	6.6	35		11.5	92	4.0	8.0	92		136		23	0.42		1,150
4-22-70	7.0	10		11.2	92	4.1	8.0	90		134		23			190
4-23-70	7.0	10		11.2	92	2.4	8.0	92		134		22			130
4-24-70	7.7	10		11.1	93	3.2	7.8	90		132	32	22		0.0	770
4-25-70	8.3	10		11.3	96	2.9	8.0	92		134		22			1,700
4-26-70	7.8	7		11.2	94	3.1	8.1	94		136		22			110
4-27-70	8.3	8		11.4	96	2.4	8.1	92		132		22			
4-28-70	8.9	7		11.1	95	2.7	8.0	92		130		2[illegible]			20
4-29-70	8.9	8		11.3	97	2.3	8.0	92		130		21	0.22		340
4-30-70	8.8	7		11.0	94	2.1	8.1	90		126		21			50
Apr. Avg.	5.4	15		11.8	93	2.9	8.0	91	180	135	28	23	0.33	0.0	431
Max.	8.9	45		13.1	97	4.1	8.1	94	226	142	35	26	0.42	0.0	1,980
Min.	1.6	2		11.0	90	2.1	7.8	86	134	126	21	20	0.22	0.0	20
5-1-70	11.1	7		11.0	99	2.6	8.1	90		132	35	21		0.00	460
5-2-70	11.7	10		10.5	96	2.4	8.4	90		140		21			525
5-3-70	11.1	9		11.0	99	2.3	8.6	90		134		19			30
5-4-70	11.1	10		11.6	104	2.5	8.6	90	110	132		21			95
5-5-70	11.1	8		11.9	107	2.4	8.7	92		132		22	0.13		145

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake -C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-6-70	11.1	20		11.3	102	2.4	8.7	88		140		22			380
5-7-70	10.0	15		11.3	99	2.4	8.5	92		130		23			150
5-8-70	10.5	8		11.0	98	2.4	8.5	98		134		23			510
5-9-70	11.0	7		10.8	97	2.4	8.4	96		130		23			280
5-10-70	12.0	8		10.9	100	2.5	8.5	98		132		22			510
5-11-70	13.0	10		10.2	96	2.7	8.6	98	154	134		23			430
5-12-70	12.5	7		10.3	96	2.7	8.6	94		138		22	0.10		60
5-13-70	13.5	4		10.2	97	2.5	8.8	94		142		22			1,100
5-14-70	13.0	10		10.1	96	2.7	8.8	94		142		22			540
5-15-70	13.0	8		10.1	96	2.7	8.6	92		136	30	23		0.50	4,000
5-16-70	13.0	10		10.2	96	2.7	8.6	92		138		23			220
5-17-70	13.0	10		10.2	96	3.3	8.7	94		140		23			1,300
5-18-70	13.0	8		9.6	91	3.0	8.4	94	146	134		23			160
5-19-70	13.5	7		9.8	94	2.9	8.6	96		136		24	0.16		380
5-20-70	14.0	6		10.0	97	2.7	8.6	94		134		23			210
5-21-70	14.5	6		9.8	96	2.5	8.6	94		134		23			90
5-22-70	14.0	6		9.8	95	2.4	8.8	98		132	28	24		Trace	570
5-23-70	15.0	7		9.8	97	2.6	8.7	98		134		23			120
5-24-70	14.4	7		9.4	91	2.8	8.4	96		138		21			40
5-25-70	14.4	7		8.9	87	2.6	8.3	98		132		22			1,700
5-26-70	15.0	9		9.0	89	3.1	8.3	96		136		22	0.17		1,320
5-27-70	15.0	10		8.8	87	2.7	8.5	96		138		23			1,110
5-28-70	15.5	10		8.4	84	3.4	8.4	96		138		21			420
5-29-70	15.6	3		8.6	86	2.6	8.3	86		134		21			320
5-30-70	16.7	10		8.4	85	2.4	8.3	92		130		21			160
5-31-70	17.2	7		7.9	81	2.4	8.3	94		132		22			480

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake -C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
May Avg.	13.2	9		10.0	95	2.6	8.5	94	137	135	31	22	0.14	0.17	575
Max.	17.2	20		11.9	107	3.4	8.8	98	154	142	35	24	0.17	0.50	4,000
Min.	10.0	3		7.9	81	2.3	8.1	86	110	130	28	19	0.10	0.00	30
6-1-70	17.0	7		8.0	82	2.3	8.3	94	160	132	28	21			220
6-2-70	18.0	7		8.0	84	3.1	8.4	94		134		22	0.20		210
6-3-70	18.0	15		7.9	83	3.4	8.2	94		130		22			1,080
6-4-70	18.0	10		7.8	82	3.0	8.0	92		130		20			480
6-5-70	17.2	9		7.9	82	3.1	8.2	96		132	26	21		0.30	0
6-6-70	17.2	10		7.7	80	3.1	8.2	94	197	132		22			190
6-7-70	16.0	6		7.8	79	2.8	8.1	94		136		22			300
6-8-70	18.5	8		7.8	83	2.8	8.2	96	187	140		22			780
6-9-70	18.5	6		8.1	86	2.9	8.2	94		130		21	0.20		110
6-10-70	18.0	7		7.4	78	2.7	8.2	96		130		21			190
6-11-70	18.0	10		7.8	82	3.1	8.2	94		140		21			250
6-12-70	18.0	9		7.6	80	3.2	8.2	94		136		21			270
6-13-70	18.0	10		7.4	78	3.1	8.1	96		134		22			340
6-14-70	18.0	10		7.4	78	3.4	8.2	94		134		21			300
6-15-70	17.8	8		6.8	71	2.9	7.9	96	155	134		22			1,400
6-16-70	18.5	6		7.0	74	3.1	7.9	96		132		22	0.20		1,300
6-17-70	18.5	4		7.0	74	2.9	7.9	94		136		20			3,500
6-18-70	19.0	4		7.1	76	3.2	8.0	94		134		21			930
6-19-70	21.0	20		6.9	77	4.0	8.0	94		134	22	21			550
6-20-70	21.0	6		7.0	78	3.9	7.8	94		134		20			380
6-21-70	21.0	20		7.0	78	3.9	8.0	94		132		21			130
6-22-70	21.0	45		7.2	80	2.8	8.0	94		138		20			530
6-23-70	21.0	10		6.6	73	3.6	7.9	92		136		20	0.26	0.30	3,700
6-24-70	20.0	8		7.3	79	2.1	8.0	92		130		19			30
6-25-70	20.0	25		7.7	84	3.2	8.0	92		130		20		0.20	1,380

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-26-70	20.0	20		7.7	84	3.1	8.2	96		128	24	20		0.20	400
6-27-70	20.6	10		7.8	86	3.0	8.2	92		130		19			1,180
6-28-70	20.6	8		7.6	84	2.9	8.2	92		126		18			1,620
6-29-70	20.5	10		7.8	86	2.9	8.2	96	147	126		20		0.30	200
6-30-70	20.5	10		7.6	84	2.5	8.2	94		128		20	0.24	0.30	140
June Avg.	19.0	11		7.5	80	3.1	8.1	94	160	133	25	21	0.22	0.27	735
Max.	21.0	45		8.1	86	4.0	8.4	96	197	140	28	22	0.26	0.30	3,700
Min.	16.0	4		6.6	73	2.1	7.8	92	147	126	22	18	0.20	0.20	0
7-1-70	20.5	6		7.1	78	3.0	8.1	92		126		20		0.20	50
7-2-70	20.5	6		7.1	78	3.2	8.2	92		124		19		0.30	100
7-3-70	20.5	10		7.1	78	3.2	8.1	92		128		20		0.20	410
7-4-70	20.5	25		7.0	77	4.1	8.1	94		130		19			340
7-5-70	20.5	9		7.1	78	3.9	8.0	94		128		20			420
7-6-70	22.0	4		6.9	78	4.5	8.3	94	176	128		20			100
7-7-70	22.0	5		6.2	70	3.4	8.1	90		130		20	0.15	0.20	130
7-8-70	22.0	4		6.3	71	3.4	8.2	90		128		19			24,600
7-9-70	22.0	7		5.6	63	3.6	8.0	92		128		20			360
7-10-70	21.0	6		4.1	45	3.6	7.8	90		134	24	21			340
7-11-70	21.0	7		4.8	53	3.3	7.8	92		132		20			340
7-12-70	21.0	3		5.2	58	3.3	8.0	90		130		21			530
7-13-70	21.0	5		5.5	61	3.7	8.0	86		124		22			393
7-14-70	21.0	3		6.5	72	3.4	8.1	90		124		23			206
7-15-70	23.0	4		7.4	85	3.2	8.3	88		128		20			490
7-16-70	23.0	60		7.0	80	3.5	8.4	88		128		21			337
7-17-70	23.0	7		6.9	79	3.2	8.2	84		130		20			150
7-18-70	23.0	6		7.0	80	3.0	8.2	86		120		21			220
7-19-70	23.0	7		7.0	80	3.0	8.3	90		122		20			138

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
7-20-70	23.0	6		7.4	85	2.7	8.4	90		120		24			76
7-21-70	23.0	20		7.3	84	2.9	8.1	92		118		22			3,300
7-22-70	22.0	9		7.1	80	2.9	8.2	96		120		21			333
7-23-70	22.0	7		7.7	87	2.9	8.3	90		122		22			162
7-24-70	22.0	7		7.2	81	2.7	8.4	92		122		22			140
7-25-70	22.2	5		8.0	91	2.8	8.5	88		126		21			180
7-26-70	22.0	4		6.3	71	2.3	8.3	90		124		22			83
7-27-70	22.0	4		7.6	86	2.6	8.3	90		120		21			71
7-28-70	22.0	5		8.3	94	3.9	8.4	88		118		22			61
7-29-70	24.0	4		9.5	111	1.8	8.6	86		116		22			160
7-30-70	24.0	4		9.8	114	2.0	8.8	90		120		21			100
7-31-70	24.0	6		9.7	113	2.9	8.8	90		124		21			1,250
July Avg.	22.0	8		7.0	80	3.2	8.2	90	176	125	24	21	0.15	0.22	1,117
Max.	24.0	60		9.8	114	4.5	8.8	96	176	134	24	24	0.15	0.30	24,600
Min.	20.5	3		4.1	45	1.8	7.8	84	176	116	24	19	0.15	0.20	50
8-1-70	25.6	5		8.9	107	3.0	8.9	92		128		22			90
8-2-70	25.6	6		8.1	97	3.5	8.8	92		138		23			410
8-3-70	24.5	6		7.8	92	2.5	8.6	90	153	120		21			290
8-4-70	24.5	15		7.7	91	2.3	8.8	88		122		21	0.22		550
8-5-70	24.5	4		7.4	87	2.8	8.6	86		120		22			130
8-6-70	25.5	5		7.3	87	3.0	8.6	90		126		22			40
8-7-70	23.5	4		7.0	81	3.0	8.6	90		122	22	22		0.10	20
8-8-70	23.0	7		2.3	26	4.3	8.6	90		124		22			20
8-9-70	23.5	8		1.4	16	5.6	7.7	96		128		23			40
8-10-70	22.2	3		3.0	34	3.8	7.7	94	164	132		23			100
8-11-70	22.5	4		5.0	57	4.4	7.9	92		132		23	0.22		420
8-12-70	23.5	4		8.1	94	2.9	8.6	92		132		23			0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-13-70	23.5	4		8.2	95	3.3	8.6	92		130		22			
8-14-70	24.0	5		8.3	97	2.9	8.7	94		122		22			50
8-15-70	24.0	4		6.9	81	2.7	8.5	94		134		22			70
8-16-70	24.0	3		7.2	84	2.4	8.5	90		130		21			230
8-17-70	24.0	4		8.1	95	2.3	8.4	90		132		23			340
8-18-70	24.0	4		7.8	91	3.0	8.5	90		130		21	0.001	0.01	
8-19-70	24.5	4		7.4	87	3.1	8.6	90		132		23			50
8-20-70	25.0	5		7.4	88	2.5	8.6	90		128		23			400
8-21-70	25.0	4		7.6	90	2.5	8.5	90		130	23	25		Trace	1,440
8-22-70	24.0	3		7.5	88	2.7	8.6	86		126		24			200
8-23-70	24.0	10		7.3	85	3.9	8.5	88		128		24			3,800
8-24-70	24.0	9		7.6	89	2.7	8.6	88	161	132					
8-25-70	24.0	3		7.5	88	2.8	8.5	86		136		25	0.12		110
8-26-70	24.3	3		7.4	87	2.7	8.5	90		134		24			430
8-27-70	24.3	5		7.4	87	2.7	8.5	90		136		22			
8-28-70	24.3	3		8.1	95	2.5	8.7	90		136		26			80
8-29-70	24.3	3		7.9	93	2.8	8.6	92		134		25			90
8-30-70	24.4	3		6.5	76	3.0	8.4	90		132		26			80
8-31-70	23.5	25		7.4	86	2.6	8.3	92	130	130		25			2,870
Aug. Avg.	24.0	6		7.0	83	3.0	8.5	90	152	130	22	23	0.14	0.04	798
Max.	25.6	25		8.9	107	5.6	8.9	96	164	138	23	26	0.22	0.10	10,000
Min.	22.2	3		1.4	16	2.3	7.7	86	130	120	22	21	0.001	0.00	0
9-1-70	23.5	9		7.7	89	2.8	8.5	90		130		25	0.18		190
9-2-70	23.0	6		5.7	65	2.6	8.6	90		132		23			60
9-3-70	22.5	6		7.7	88	2.9	8.7	92		134		25			30
9-4-70	22.5	15		8.1	92	2.9	8.4	90		132	25	24		Trace	710

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
9-5-70	23.0	10		7.7	88	2.8	8.4	90		134		24			192
9-6-70	23.0	7		7.5	86	3.0	8.1	90		132		24			470
9-7-70	22.0	5		6.9	78	3.2	8.3	92		134		24			40
9-8-70	21.5	7		6.0	67	3.0	8.2	90		132		24	0.14		70
9-9-70	22.0	7		7.1	80	3.1	8.0	90		132		23			310
9-10-70	22.0	10				3.3									
9-11-70	21.0	15		8.0	89	2.7	8.2	90		132		23			
9-12-70	21.0	9		7.6	84	2.2	8.0	92		132		24			
9-13-70	21.0	15		8.0	89	2.7	7.9	92		134		23			
9-14-70	21.0	20		7.6	84	2.4	8.0	90		134		24			
9-15-70	21.0	15		7.8	86	2.4	8.0	92		134		25	0.16		1,400
9-16-70	21.0	10		7.8	86	2.3	8.2	90		136		25			5,600
9-17-70	20.5	10		7.4	81	2.6	8.2	92		130		25			900
9-18-70	21.0	7		7.5	83	2.8	8.2	92		128	21	25		Trace	510
9-19-70	20.6	7		7.5	83	2.6	7.8	92		136		24			960
9-20-70	21.1	5		7.8	87	2.7	8.0	92		134		25			650
9-21-70	21.1	5		7.6	84	2.6	8.1	90		136		23			290
9-22-70	21.1	5		8.5	94	2.6	8.3	90		130		23			550
9-23-70	21.1	5		8.7	97	2.8	8.3	92		136		23			140
9-28-70	19.5	20		7.9	85	3.0	8.1	90		132		22			8,200
9-29-70	19.4	15		8.2	88	2.6	8.2	92		132		24			2,600
9-30-70	18.5	8		8.4	89	2.7	8.2	92		134		23			2,100
Sept. Avg.	21.3	10		7.7	85	2.7	8.2	91		133	23	24	0.16	0.00	1,237
Max.	23.5	20		8.7	97	3.3	8.7	92		136	25	25	0.18	0.00	8,200
Min.	18.5	5		5.7	65	2.2	7.8	90		128	21	22	0.14	0.00	30
10-1-70	17.7	15		8.8	92	2.9	8.4	94		52		22			2,700
10-2-70	17.7	8		8.7	91	2.6	8.3	92		128	24	22		0.0	190

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-3-70	17.2	20		8.6	89	2.9	8.3	92		130		22			37
10-4-70	16.6	9		8.7	89	2.8	8.3	94		126		23			
10-5-70	16.1	15		8.9	90	2.8	8.2	90	129	128		22			4,400
10-6-70	16.1	10		9.0	91	3.0	8.2	90		126		21	0.18		580
10-7-70	16.1	8		8.9	90	3.0	8.2	90		126		21			420
10-8-70	16.1	7		8.9	90	2.8	8.0	86		124		21		0.0	58
10-9-70	16.1	8		9.0	91	2.9	8.2	90		122	28	21		0.0	230
10-10-70	17.0	7		8.9	92	2.9	8.2	90		126		21			2,900
10-11-70	17.0	7		9.0	93	2.8	8.3	90		126		23			3,900
10-12-70	17.1	8		9.1	94	2.8	8.2	90	182	128		21			710
10-13-70	16.6	6		9.1	93	2.8	8.2	90		132		21	0.12		230
10-14-70	16.6	6				3.2	8.3	90		132		22			360
10-15-70	16.6	10		9.2	94	3.0	8.3	90		130		22			3
10-16-70	16.6	15		9.4	96	2.5	8.2	90		130	22	20			870
10-17-70	16.1	7		9.6	97	2.5	8.2	88		132		22			1,100
10-18-70	15.5	10		9.6	96		8.2	90		132		22			720
10-19-70	15.6	10		9.5	95	2.9	8.3	90	157	126		22			2,000
10-20-70	15.5	15		9.5	95	2.6	8.3	90		126		21	0.45		1,200
10-21-70	14.4	8		9.4	92	2.3	8.3	90		130		21			270
10-22-70	14.4	4		9.5	93	2.4	8.3	90		132		22			40
10-23-70	14.4	4		9.5	93	2.4	8.4	92		134	18	22		0.01	2,700
10-24-70	14.4	3		9.5	93	2.5	8.3	90		132		22			1,250
10-25-70	14.4	20		9.7	95	2.6	8.3	92		132		22			680
10-26-70	14.4	10		9.7	95	2.6	8.4	92	182	130		22			230
10-27-70	14.0	10		9.6	93	2.5	8.5	90		130		22	0.12		460
10-28-70	14.0	10		9.6	93	2.2	8.4	90		126		22		0.0	550
10-29-70	13.8	6		9.6	93	2.2	8.2	90		128	23	23			180
10-30-70	13.8	4		9.6	93	2.2	8.1	92		128	23	22		0.0	90
10-31-70	13.8	7		9.5	92	2.1	8.2	92		128		23			130

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
Oct. Avg.	15.7	9		9.3	92	2.7	8.3	91	163	129	23	22	0.22	0.001	973
Max.	17.7	20		9.7	97	3.2	8.5	94	182	134	28	23	0.45	0.01	4,400
Min.	13.8	3		8.6	89	2.1	8.0	86	129	122	18	20	0.12	0	3
11-1-70	13.9	7		9.7	94	2.1	8.2	90		130		22			400
11-2-70	14.0	8		9.2	89	2.1	8.1	86		130		20			2,400
11-3-70	14.0	6		9.8	95	2.1	8.1	88		130		21	0.17		1,200
11-4-70	13.0	6		9.4	89	2.7	8.0	90		130		21			1,800
11-5-70	12.8	25		9.4	89	3.4	7.9	90		13		21			12,000
11-6-70	11.7	15		9.5	87	3.7	8.1	92		130	25	20		0.20	5,200
11-7-70	11.7	10		9.8	90	3.1	8.2	86		130		21			1,600
11-8-70	11.1	15		9.9	90	2.9	8.0	86		128		20			2,200
11-9-70	11.1	6		9.8	89	2.9	8.2	88		128		19			340
11-10-70	11.1	8		9.8	89	2.9	8.1	90		130		19	0.20		43
11-11-70	12.2	5		8.5	79	2.0	8.2	88		128		19			2,900
11-12-70	12.2	5		9.6	89	2.2	8.2	90		130		19			2,900
11-13-70	12.0	9		9.7	89	2.0	8.2	86		124	22	19			230
11-14-70	11.1	15		9.8	89	2.0	8.1	86		126		19			980
11-15-70	10.0	20		10.6	94	2.0	8.0	86		130		18			800
11-16-70	10.0	30		10.5	93	1.9	8.0	88	127	128		19			6,000
11-17-70	9.0	20		10.4	90	2.2	8.1	88		128		16	0.50		2,200
11-18-70	8.5	10		10.4	89	2.2	8.0	92		128		19			210
11-19-70	8.9	10		10.7	92	1.9	8.0	94		120		20			360
11-20-70	9.0	9		10.2	88	1.7	8.1	90		118	18	18		0.00	210
11-21-70	8.3	30		10.6	90	2.2	8.1	90		120		19			790
11-22-70	7.8	10		10.7	90	2.1	8.0	92		134		19			880
11-23-70	5.6	40		11.1	88	2.0	8.0	92	151	120		19			1,500
11-24-70	5.5	50		11.0	87	2.2	8.1	94		120		19	0.90		610
11-25-70	4.0	30		11.8	90	1.9	8.1	92		120		18			1,100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
11-26-70	4.0	15		11.4	87	2.7	8.1	92		122		18			1,100
11-27-70	4.4	10		11.5	89	2.2	8.1	86		126		17			1,800
11-28-70	5.0	25		11.6	91	2.5	8.1	90		128		17			1,700
11-29-70	5.0					2.0									
11-30-70	4.4	15		11.6	90	2.4	8.1	90	149	128		18			1,000
Nov. Avg.	9.4	16		10.3	89	2.3	8.1	89	142	127	22	19	0.44	0.10	1,878
Max.	14.0	50		11.8	94	3.7	8.2	94	151	134	25	22	0.90	0.20	12,000
Min.	4.0	5		8.5	79	1.7	7.9	86	127	118	18	16	0.17	0.00	43
12-1-70	5.5	10		11.7	93	2.3	8.1	90		128		18	0.20		740
12-2-70	6.1	10		11.8	95	3.5	8.1	90		130		19			540
12-3-70	6.7	10		11.4	93	2.9	8.1	90		126		20			760
12-4-70	6.7	2		11.6	95	3.0	8.1	90		132	28	20		0.20	5,000
12-5-70	6.1	20		11.6	94	2.1	8.1	90		132		20			1,370
12-6-70	5.0	35		11.6	91	2.7	8.1	90		130		20			2,500
12-7-70	5.0	25		12.3	97	2.0	8.1	90	164	128		20			680
12-8-70	3.9	10		12.4	95	1.9	8.1	90		128		20	0.32		550
12-9-70	3.3	25		12.0	90	2.0	8.1	90		134		19			1,200
12-10-70	3.3	20		12.3	92	3.0	8.1	90		134		19			550
12-11-70	3.3	25		12.5	94	2.9	8.1	94		132	28	19		0.10	880
12-12-70	3.3	30		12.7	95	2.8	8.1	88		128		19			480
12-13-70	3.3	20		12.8	96	3.0	8.1	88		130		18			1,200
12-14-70	3.3	30		12.4	93	5.4	8.0	92	313	136		18			6,200
12-15-70	3.5	30		12.5	94	4.6	8.0	90		132		19			4,200
12-16-70	4.0	30		12.6	96	4.1	7.9	86		130		21			1,700
12-17-70	4.0	25		12.5	96	4.0	8.0	88		130		20			2,900
12-18-70	3.3	25		12.9	97	4.1	8.0	90		130	25	19		0.0	2,900
12-19-70	3.5	25		12.7	96	3.8	8.1	90		130		19			2,500

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - CI801

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
12-20-70	3.0	20		12.9	96	3.7	8.1	88		132		19			550
12-21-70	3.0	20		12.2	91	4.0	7.9	90	274	142		18			3,400
12-22-70	3.0	30		12.4	92	3.7	8.1	92		136		19			1,400
12-23-70	2.5	25		13.4	99	3.6	8.0	92		130		19			1,500
12-24-70	1.7	20		13.1	94	4.2	8.0	92		132	28	19			1,100
12-25-70	1.0	20		12.8	90	2.2	8.0	92		130		19			1,300
12-26-70	110	25		13.2	93	4.2	8.0	90		132		19			1,100
12-27-70	1.0	30		13.4	95	3.4	8.1	92		134		20			870
12-28-70	1.0	30		13.7	97	3.2	8.0	92	189	132		19			750
12-29-70	1.0	20		13.7	97	2.8	8.0	92		132		19	0.35		330
12-30-70	1.0	20		14.0	99	2.5	7.9	92		130		20			290
12-31-70	1.0	15		13.7	97	2.3	7.9	92		130		20			80
Dec. Avg.	3.3	22		12.6	94	3.2	8.0	90	235	131	27	19	0.29	0.10	1,597
Max.	6.7	35		14.0	99	5.4	8.1	94	313	142	28	21	0.35	0.20	6,200
Min.	1.0	2		11.4	90	1.9	7.9	86	164	126	25	18	0.20	0.00	80

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
																110	
1-2-70	0.5	10	6	276	11.9	82	1.0	8.1	92		125						
1-5-70	0.5	7	6	283	13.1	91			93		124	26	29	0.34	0.0	1,200	
1-6-70	0.5	4	8	268	12.9	89	1.0	8.1	94		122					220	
1-7-70	0.5	4	8	276	12.8	89	0.8	8.1	93		120					34	
1-8-70	0.5	7		267	12.9	89	0.4	8.1	88		122					2,400	
1-9-70	0.5	5	4		12.9	90	1.9	8.1	94		122					3,800	
1-12-70	0.5	2	3	276	13.7	95	0.4	8.2	92		122	21	23	0.14	0.0	10	
1-13-70	0.5	2	4	258	13.2	91	0.6	8.1	96		126					110	
1-14-70	0.5	2	4	268	12.2	85	3.1	7.7	93		125					1,900	
1-15-70	0.5	2	4	296	13.1	91	2.1	7.9	91		128					68	
1-16-70	0.5	2	4	284	13.5	94	1.1	8.3	91		126					37	
1-19-70	0.5	2	4	280	13.8	96	1.4	8.0	90		126	23	24	0.18	0.0	110	
1-20-70	0.5	2	4	290	13.5	94	1.2	8.0	94		121					47	
1-21-70	0.5	2	4	277	13.4	93	1.3	8.0	98		123					65	
1-22-70	0.5	2	4	286	13.5	94	1.5	8.0	94		123					28	
1-23-70	0.5	1	4	289	14.0	97	1.2	7.8	94		121					65	
1-26-70	0.5	2	4	291	14.5	101	1.2	8.0	95		123	23	23	0.04	0.0	29	
1-27-70	0.5	2	4	280	14.0	97	1.2	8.0	95		128					37	
1-28-70	0.5	2	6	278	14.2	98	1.1	8.1	94		125					24	
1-29-70	0.5	2	8	283	13.6	94	1.2	8.1	91		127					50	
1-30-70	0.5	5			13.6	94	1.4	8.1	92		129					21	
Jan.Avg.	0.5	3	5	279	13.4	94	1.3	8.0	93		124	23	25	0.18	0.0	460	
Max.	0.5	10	8	296	14.5	101	3.1	8.3	98		129	26	29	0.34	0.0	3,800	
Min.	0.5	1	3	258	11.9	82	0.4	7.7	88		120	21	23	0.04	0.0	10	
2-2-70	0.5	3	6	286	15.1	105	1.1	8.1	92		123	24	23	0.27	0.0	98	
2-3-70	0.5	8	8	283	15.0	104	1.2	8.1	94		125					1,200	
2-4-70	0.5	25	12	280	15.2	105	1.2	8.1	94		123					3,100	
2-5-70	0.5	20	12	285	12.0	83	1.4	8.0	93		123					2,500	
2-6-70	0.5	20	8	280	13.0	90	1.5	7.9	90		124					10,000	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
2-9-70	0.5	15	8	286	13.5	94	0.9	7.9	90		125	27	23	0.39	0.0	640	
2-10-70	0.5	6	6	272	13.8	96	1.0	8.0	93		126					440	
2-11-70	0.5	8	6	281	13.2	91	1.4	8.0	91		124					3,000	
2-12-70	0.5	5	6	239	13.4	93	1.3	8.0	92		126					250	
2-13-70	0.5	7	6	282	13.6	94	1.1	8.0	88		124					250	
2-16-70	0.5	2	4	265	14.5	101	0.7	8.1	92		128	21	24	0.24	0.0	3	
2-17-70	0.5	3	6	290	13.5	94	0.8	8.1	93		128					14	
2-18-70	0.5	2	4	246	14.1	98	0.6	8.2	97		128					8	
2-19-70	0.5	2	4	280	14.1	98	0.8	8.2	92		136					12	
2-20-70	0.5	3		282	13.8	96	0.6	8.2	90		128					85	
2-24-70	0.5	2		290	13.8	96	0.7	8.3	99		137	24	26	0.06	0.0	3	
2-25-70	0.5	2		285	14.0	97	0.6	8.4	98		124					3	
2-26-70	0.5	30		280	13.9	96	1.1	8.2	97		123					130	
2-27-70	0.5	15		282	13.8	96	0.6	8.3	97		124					120	
Feb.Avg.	0.5	9	7	278	13.9	98	1.0	8.1	93		126	24	24	0.24	0.0	1,049	
Max.	0.5	30	12	290	15.2	105	1.5	8.4	99		137	27	26	0.39	0.0	10,000	
Min.	0.5	2	4	239	12.0	83	0.6	7.9	88		123	21	23	0.06	0.0	2	
3-2-70	0.5	8	6	283	13.0	90	0.7	8.1	93		128	19	23	0.26	0.0	13	
3-3-70	0.5	5	6	281	13.0	90	0.8	8.2	95		128					210	
3-4-70	0.5	6	6	282	12.6	87	0.7	8.1	87		131					26	
3-5-70	0.5	5	6	288	12.0	83	0.7		91		128					38	
3-6-70	0.5	6	6	282	12.4	86	1.0	8.2	95		128					29	
3-9-70	0.5	4	6	285	13.5	94	1.1	8.3	95		132	28	22	0.16	0.0	17	
3-10-70	0.5	5	6	286	12.9	89	1.0	8.3	96		127					16	
3-11-70	0.5	4	8	298	13.3	92	1.2	8.3	95		127					12	
3-12-70	0.5	4	8	288	13.2	91	1.1	8.3	10		127					2	
3-13-70	0.5	2	8	293	13.8	96	0.8	8.4	98		123					6	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
3-16-70	0.5	2	6	287	14.3	99	0.9	8.3	95		129	24	22	0.07	0.0	32	
3-17-70	0.5	2	6	288	14.2	98	0.9	8.3	96		127					11	
3-18-70	0.5	2	8	292	14.5	101	1.0	8.4	92		126					7	
3-19-70	0.5	2	8	289	14.5	101	0.9	8.4	92		124					3	
3-20-70	0.5	3	6	280	14.5	101	0.9	8.6	86		127					44	
3-23-70	0.5	1	6	269	13.0	90	0.9	8.4	90		126	21	23	0.08	0.0	16	
3-24-70	0.5	2	6	270	13.6	94	0.9	8.5	92		120					28	
3-25-70	0.5	3	6	273	13.0	90	1.3	8.5	93		123					230	
3-26-70	0.5	2	8	259	13.8	96	1.0	8.5	91		124					44	
3-27-70	0.5	25	12	270	13.6	94	1.5	8.7	92		122					180	
3-30-70	0.5	10	8	289	13.5	94	1.5	8.5	91		126	28	24	0.36	0.0	36	
3-31-70	0.5	8	12	292	13.0	90	3.0	8.4	93		126					120	
Mar.Avg.	0.5	5	7	283	13.5	95	1.1	8.4	89		126	24	23	0.19	0.0	56	
Max.	0.5	25	12	298	14.5	101	3.0	8.7	98		132	28	24	0.36	0.0	230	
Min.	0.5	1	6	259	12.0	83	0.7	8.1	10		120	19	22	0.07	0.0	2	
4-1-70	1.1	4	8	282	12.6	89	1.2	8.5	91		123					3	
4-2-70	1.1	30	12	277	12.7	89	2.3	8.4	91		121					190	
4-3-70	1.7	65	35	286	12.1	87	2.5	8.3	91		123					150	
4-6-70	2.2	15	24	290	14.1	102	2.2	8.2	91		123	26	28	0.46	0.0	28	
4-7-70	2.2	15	35	300	13.9	101	1.5	8.2	90		125					20	
4-8-70	2.8	15	35	294	13.9	103	1.7	8.1	91		123					25	
4-9-70	3.3	15	35	297	13.5	101	1.9	8.1	90		125					240	
4-10-70	2.8	6	24	294	13.3	98	1.3	8.1	91		125					28	
4-13-70	3.3	8	12	298	12.4	93	1.8	8.2	91		124	24	26	0.39	0.0	6	
4-14-70	3.9	20	12	296	11.8	90	1.6	8.0	90		121					76	
4-15-70	4.4	10	12	297	11.6	89	1.7	8.1	91		125					28	
4-16-70	4.4	8	17	302	11.7	90	1.8	8.0	91		129					53	
4-17-70	4.4	7	17	299	11.7	90	2.1	8.1	92		128					82	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
4-20-70	5.6	20	17	296	12.8	101	2.2	8.2	91		130	25	24	0.44	0.0	92	
4-21-70	6.1	15	12	306	12.3	99	2.2	8.1	92		132					160	
4-22-70	6.1	10	12	274	12.2	98	2.0	8.1	90		119					4	
4-23-70	6.7	9	12	287	11.6	94	1.8	8.1	91		126					64	
4-24-70	7.2	8	12	304	11.4	94	2.4	8.0	93		129					77	
4-27-70	7.2	5	12	294	11.5	95	1.7	8.0	91		127	29	23	0.22	0.0	54	
4-28-70	6.7	4	17	286	10.7	87	1.9	8.0	91		124					55	
4-29-70	6.7	4	12	289	10.8	88	2.1	8.0	92		120					66	
4-30-70	6.7	4	17	288	11.3	92	1.3	8.1	91		124					44	
Apr.Avg.	4.4	14	18	293	12.3	94	1.9	8.1	91		125	26	25	0.38	0.0	70	
Max.	7.2	65	35	306	14.1	103	2.5	8.5	93		132	29	28	0.46	0.0	240	
Min.	1.1	4	8	274	10.7	88	1.2	8.0	90		119	24	23	0.22	0.0	3	
5-1-70	7.2	3	24	286	10.4	86	2.2	8.1	92		124						
5-4-70	9.4	3	17	290	11.5	100	1.7	8.3	92		124					48	
5-5-70	10.6	4	12	291	11.1	99	1.3	8.5	94		124	26	23	0.12	0.0	34	
5-6-70	10.6	15	50	291	11.0	98	2.0	8.7	95		128					76	
5-7-70	9.4	15	35	292	10.9	94	1.8	8.5	99		129					77	
5-8-70	9.4	5	50	297	11.0	95	1.1	8.4	96		124					70	
5-11-70	10.6	5	50	290	11.7	104	1.6	8.6	94		126	26	26	0.14	0.0	80	
5-12-70	11.1	5	50	291	10.5	95	1.6	8.6	96		128					120	
5-13-70	11.7	6	50	282	9.8	89	1.8	8.4	95		124					120	
5-14-70	12.2	6	35	283	10.0	92	2.0	8.4	96		119					990	
5-15-70	10.6	3	35	291	10.3	92	1.2	8.5	94		123					240	
5-18-70	12.2	4	24	290	10.3	95	1.4	8.5	95		124	27	27	0.03	0.0	84	
5-19-70	12.2	3	50	289	10.1	93	1.8	8.6	95		126					120	
5-20-70	13.3	3	50	288	9.9	94	1.8	8.6	95		125					140	
5-21-70	12.2	3	24	283	9.7	89	1.6	8.5	95		125					180	
5-22-70	12.2	2	7	286	9.5	88	1.6	8.5	94		125					180	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
5-25-70	10.6	2	24	271	8.3	74	1.8	8.4	97		125	27	24	0.10			
5-26-70	13.9	3	35	280	8.9	86	1.7	8.4	88		125					190	
5-27-70	16.1	8	35	286	8.3	84	2.2	8.4	86		143					28	
5-28-70	16.1	4	50		10.2	103	1.9	8.5	90		138						
May Avg.	11.6	5	35	287	10.2	93	1.7	8.5	94		126	27	25	0.10	0.0	163	
Max.	16.1	15	50	297	11.7	104	2.2	8.7	99		143	27	27	0.14	0.0	990	
Min.	7.2	2	7	271	8.3	74	1.1	8.1	86		119	26	23	0.03	0.0	28	
6-1-70	12.8	5	24	299	7.4	70	1.8	7.9	90		125	29	26	0.77	0.05	340	
6-2-70	13.9	6	24	293	6.5	63	2.2	7.9	90		132					300	
6-3-70	17.2	7	17	283	8.3	86	2.1	8.2	86		130					200	
6-4-70	17.2	10	50	265	8.1	84	1.7	8.3	89		130					290	
6-5-70	14.4	8	50	283	5.7	56	2.3	7.9	91		130					280	
6-8-70	15.0	9	24	286	4.4	44	2.5	7.8	92		130	30	25	0.32		43	
6-9-70	17.2	6	24	297	6.2	64	2.8	7.9	92		138					120	
6-10-70	16.7	7	24	308	4.5	46	2.9	7.9	92		137					170	
6-11-70	16.1	9	24	295	3.4	34	3.1	7.8	92		122					63	
6-12-70	15.6	5	24	298	4.0	40	3.2	7.5	91		134					680	
6-15-70	11.7	10	24	284	3.9	36	2.7	7.6	91		127	25	22	0.25	0.0	580	
6-16-70	15.0	5	24	295	5.1	50	2.6	7.7	90		126					120	
6-17-70	16.7	4	17	289	5.4	55	2.4	7.7	88		123					140	
6-18-70	17.8	4	24	288	4.7	49	2.7	7.9	89		122					230	
6-19-70	20.0	4	17	285	7.4	81	2.6	8.1	88		120					140	
6-22-70	18.9	5	17	277	6.1	65	2.4	8.1	92		120	27	21	0.10	0.0	13	
6-23-70	20.0	3	24	285	6.8	74	2.7	8.1	88		122					140	
6-24-70	20.0	3	24	288	6.3	69	2.9	8.0	88		122					72	
6-25-70	20.6	4	35	282	7.2	79	2.6	8.1	84		122					11	
6-26-70	19.4	3	24	279	6.8	73	2.5	8.1	85		118					3,400	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
6-29-70	20.6	3	17	279	6.5	72	2.2	8.1	88		122	28	20	0.18	0.0	670	
6-30-70	20.6	3	17	284	7.2	79	2.2	8.3	88		120					2,800	
Jun.Avg.	17.1	6	25	287	6.0	62	2.5	7.9	89		126	28	23	0.32	0.01	491	
Max.	20.6	10	50	308	8.3	86	3.2	8.3	92		138	30	26	0.77	0.05	3,400	
Min.	11.7	3	17	265	3.4	34	1.7	7.5	84		118	25	20	0.10	0.00	11	
7-1-70	21.1	3	17	282	6.7	74	2.2	8.1	88		122					360	
7-2-70	20.6	3	24	279	6.8	75	2.4	8.0	86		121					400	
7-6-70	22.2	3	24	279	6.6	75	2.4	8.3	84		122	24	21	0.008	0.0	400	
7-7-70	21.1	2	17	284	6.9	77	2.8	8.2	86		123					440	
7-8-70	21.1	3	24	279	6.2	69	3.0	8.1	86		125					390	
7-9-70	19.4	3	24	291	5.6	60	2.5	8.0	87		122					460	
7-10-70	15.6	2	24	285	0.3	3	4.9	7.4	94		128					2,100	
7-13-70	17.4	10	12	300	0.1	1	2.7	7.6				25	20	0.15	0.07	4,900	
7-14-70	15.6	3	12	300	0.3	3	5.1	7.5	100							4,000	
7-15-70	16.7	3	17	290	0.1	1	5.0	7.5	100		124					150	
7-16-70	21.1	4	17	285	6.4	71	2.8	8.4	96		132					1,600	
7-17-70	22.2	4	24	286	6.9	78	2.6	8.5	96		139					1,200	
7-20-70	20.0	2	24	290	2.2	24	2.9	7.7	98		132	26	22	0.76	0.0	630	
7-21-70	21.7	10	17	284	5.3	59	2.8	8.3	96		122					370	
7-22-70	21.7	3	17	290	6.9	77	2.6	8.5	96		122					340	
7-23-70	21.7	4	24	289	5.6	63	2.6	8.0	97		127					44	
7-24-70	21.1	2	17	292	6.1	68	2.0	8.4	98		127					42	
7-27-70	20.0	3	17	295	3.1	34	2.6	7.7	96		127	25	23	0.28	0.04	98	
7-28-70	18.3	2	35	304	0.2	2	5.2	7.5	107		132					360	
7-29-70	17.8	2	50	304	0.0	0	7.5	7.5	103		135					410	
7-30-70	16.7	2	50	306	0.0	0	7.6	7.4	108		132					1,100	
7-31-70	16.7	2		309	0.0	0	5.7	7.3	111		140					1,000	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TR	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
Jul. Avg.	19.6	4	23	291	3.7	42	3.6	7.9	96		128	25	22	0.30	0.03	926	
Max.	22.2	10	50	309	6.9	78	7.6	8.5	111		140	26	23	0.76	0.07	4,900	
Min.	15.6	2	12	279	0.0	0	2.0	7.3	84		121	24	20	0.008	0.00	42	
8-2-70	23.3	2	70	281	6.5	75	10.3	8.5									
8-3-70	25.0	4	140	285	6.9	82	8.1	8.8	93		122	28	23		0.0	980	1,838
8-4-70	25.0	1	100	289	7.3	87	7.5	8.8	95		125					1,800	1,568
8-5-70	24.4	1	70	289	6.5	76	7.3	8.5	98		122					960	637
8-6-70	23.9	1	24	293	5.9	69	5.2	8.5	96		125					1,200	501
8-7-70	23.9	1	24	291	4.5	52	7.1	8.1	98		125					510	215
8-8-70	21.1	2	35	296	2.7	30	7.2	7.8	97		135						
8-9-70	15.6	2	140	312	0.0	0	15.5	7.3	108		142						
8-10-70	14.4	1	70	306	0.0	0	11.7	7.4	109		138	25	26	0.47	0.04	8,900	453
8-11-70	14.4	1	70	307	0.0	0	5.0	7.3	114		136					6,000	570
8-12-70	15.0	1	50	302	0.0	0	7.2	7.3	113		140					14,200	283
8-13-70	18.3	1	100	305	0.0	0	10.2	7.3	109		133					14,400	290
8-14-70	23.3	3	17	305	3.4	39	4.5	7.9	100		133					2,200	332
8-15-70	22.8	6	17	301	3.3	38	3.8	7.8	96		146						
8-16-70	22.8	3	17	295	3.3	38	3.7	7.8									
8-17-70	24.4	4	24	306	4.4	52	4.4	8.1	96		130	26	25	0.10	0.0	1,600	788
8-18-70	21.1	2	17	312	3.1	34	2.9	8.0	99		133					2,700	374
8-19-70	16.1	1	70	313	0.0	0	12.0	7.4	112		143					8,200	275
8-20-70	20.0	1	100	320	0.0	0	13.1	7.4	116		163					30,000	495
8-21-70	25.0	1	17	304	5.8	69	11.1	8.4	95		135					2,900	362
8-24-70	20.6	3	24	283	0.2	2	11.8	7.4	103		140	24	26	0.18	0.02	480	375
8-25-70	22.8	5	17	310	2.8	32	3.7	7.9	99		136					840	563
8-26-70	23.3	4	12	307	4.4	51	2.9	8.0	98		134					900	433
8-27-70	23.9	3	12	310	5.3	62	2.6	8.4	100		136					580	474
8-28-70	22.8	3	12	306	5.7	65	2.6	8.4	98		132					390	635

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
8-31-70	23.3	9	50	310	5.6	65	7.4	8.1	98		134	29	27	0.42		3,400	1,780
Aug.Avg.	21.4	3	50	301	3.4	39	7.3	7.9	102		135	26	25	0.29	0.01	4,911	631
Max.	25.0	9	140	320	7.3	87	15.5	8.8	116		163	29	27	0.47	0.04	30,000	1,838
Min.	14.4	1	12	281	0.0	0	2.6	7.3	93		122	24	23	0.10	0.00	390	215
9-1-70	23.9	2	35	312	7.1	83	2.1	8.6	100		134					1,400	540
9-2-70	23.3	2	50	302	7.1	82	2.0	8.6	99		134					55	420
9-3-70	18.3	6	70	315	0.3	3	11.0	7.5	118		142					2,500	702
9-4-70	17.8	2	140	324	0.0	0	7.7	7.4	113		144					80	665
9-5-70	21.1	3	50	308	4.0	44	4.5	8.9	103		136						
9-7-70	22.2	2	35	304	4.9	55	3.8	8.1	102		138	26	26	0.32	0.002	60	
9-8-70	21.7	2	24	318	3.9	44	3.9	7.9	99		136					60	188
9-9-70	21.7	4	17	316	1.3	15	4.4	7.6	104		140					20	216
9-10-70	21.1	2	35	312	0.9	10	3.6	7.7	106		138					90	193
9-11-70	22.2	8	8	302	5.3	60	2.8	8.3	103		140					230	1,758
9-12-70	22.2	2	8	306	7.1	80	1.6	8.3	104								
9-14-70	21.7	8	6	313	6.8	76	1.7	8.2	100		140	28	26	0.68	0.04	180	1,532
9-15-70	21.7	10	8	313	5.8	65	1.8	8.3	103		138					290	586
9-16-70	21.7	4	8	306	5.7	64	1.8	8.0	103		136					160	664
9-17-70	21.7	3	8	310	6.1	68	1.9	8.2	98		140					250	787
9-18-70	21.1	3	8	310	6.5	72	1.6	8.2	103		138					300	539
9-21-70	21.1	2	8	304	6.6	73	1.4	8.1	102		138	24	26	0.12	0.0	210	325
9-22-70	21.7	3	8	306	4.9	55	1.5	7.9	101		140					32	265
9-23-70	21.7	2	8	308	6.2	70	1.7	8.1	104		132					300	208
9-24-70	21.7	5	8	302			1.5	8.0	102		136					920	461
9-25-70	22.2	1	6	302			1.4	8.2	101		134					740	653
9-28-70	21.1	3	8	272			1.1	8.2	90		130	25	23	0.82	0.0	820	780
9-29-70	20.6	15	8	289			1.5	8.4	98		130					120	430

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TP	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
9-30-70	20.0	4	6	290			1.3	8.4	97		132					90	
Sept. Avg.	21.4	4	24	306	4.7	54	2.8	8.1	102		137	26	25	0.48	0.01	412	596
Max.	23.9	15	140	324	7.1	83	11.0	8.9	118		144	28	26	0.82	0.04	2,500	1,758
Min.	17.8	1	6	272	0.0	0	1.1	7.4	90		130	24	23	0.12	0.00	20	188
10-1-70	19.4	8	8	285	7.6	82	1.3	8.4	97		136					240	628
10-2-70	19.4	4		290	8.1	87	1.4	8.3	100		138					837	837
10-5-70	17.8	7	12	283	7.9	83	1.4	8.2	95		128	27	28	0.27	0.0	240	751
10-6-70	17.8	4		272	8.2	86	1.6	8.1	95		126					350	
10-7-70	17.2	4	6	280	8.1	84	1.5	8.2	98		126					220	502
10-8-70	17.8	5	6	277	7.4	77	1.0	8.1	97		130					360	561
10-9-70	17.8	3	8	285	7.4	77	1.2	8.2	100		132					510	515
10-12-70	17.8	2	8	288	8.9	93	1.0	8.4	104			24	28	0.02	0.0	200	324
10-13-70	17.8	2	6	288	7.7	80	1.0	8.4	102							11,200	364
10-14-70	17.8	3	6	285	8.2	86	1.2	8.3	99							290	274
10-15-70	17.2	15	12	286	8.1	84	1.2	8.3	100							350	927
10-16-70	17.2	20	12	280	8.2	85	1.5	8.3	102							4,100	782
10-19-70	15.6	7	4	293	8.0	80	1.2	8.2	101			24	27	0.15	0.0	420	790
10-20-70	15.6	4	4	291	8.3	83	1.1	8.1	101							350	623
10-21-70	15.6	3	6	290	9.2	92	1.0	8.3	100							270	545
10-22-70	15.0	2	6	280	8.2	81	1.1	8.3	97		128					320	608
10-23-70	15.0	2	6	297	8.5	84	1.1	8.3	98		130					96	528
10-26-70	15.0	3	6	287	9.4	93	1.1	8.3	98		128	24	28	0.08	0.0	150	397
10-27-70	15.6	3	4	285	9.1	91	1.6	8.3			126					62	468
10-28-70	15.6	2	4	280	8.7	87	1.7	8.3	96		132					35	584
10-29-70	15.6	2	4	268	8.9	89	2.0	8.3	97		125					270	433
10-30-70	15.0	2	6	286	8.8	87	1.2	8.3	98		125					190	451

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
Oct.Avg.	16.8	5	7	283	8.3	85	1.3	8.3	95		129	25	28	0.13	0.0	957	566
Max.	19.4	20	12	291	9.4	93	2.0	8.4	104		138	27	28	0.27	0.0	11,200	927
Min.	15.0	2	4	268	7.4	77	1.0	8.1	10		125	24	27	0.02	0.0	35	274
11-2-70	15.0	2	4	265	9.3	92	1.0	8.3	100		121	22	23	0.05	0.0	210	610
11-4-70	15.0	1	4	262	8.6	85	1.1	8.2	94		132					95	634
11-5-70	14.4	5	6		9.2	90	1.2	8.1	99		132						746
11-6-70	13.3	4		257	8.9	85	1.2	8.1	92		122						745
11-9-70	13.3	2	6	262	9.3	89	1.1	8.1	98		123	21	18	0.08	0.0	140	509
11-10-70	13.3	2	4	251	9.5	91	1.1	8.1	93		120					42	777
11-12-70	12.8	2	4	265	9.5	90	1.4	8.0	94		120					33	629
11-13-70	12.8	2	4	262			0.9	8.0	95		121					200	
11-16-70	10.6	25	4	252	10.5	94	1.6	7.7	93		118	30	20	1.35	0.0	640	1,214
11-17-70	10.6	20	4	250	10.6	95	0.9	7.9	92		117						1,451
11-18-70	10.6	15	4	247	10.6	95	0.8	8.0			118					170	946
11-19-70	10.6	10	4	242	10.3	92	0.8	8.0	89		112					280	472
11-20-70	10.0	6	6	249	10.7	94	0.6	8.0	93		122					370	
11-23-70	8.9	40	6	244	11.1	96	1.4	7.9	91		117	25	16	1.70	0.10	110	
11-24-70	7.2	80	6	244	10.9	90	1.8	7.9	91		122					2,700	
11-25-70	5.6	35	3	239	11.1	88	1.4	7.9	94		115					2,300	718
11-27-70	6.7	10	4	244	11.4	93	1.1	8.0	91		120					300	646
11-30-70	7.2	7	4	228	12.0	99	0.9	7.8	93		123	25	19	0.33	0.0	460	
Nov.Avg.	11.0	15	5	251	10.2	91	1.1	8.0	94		121	25	19	0.70	0.02	537	777
Max.	15.0	80	6	265	12.0	99	1.8	8.3	100		132	30	23	1.70	0.10	2,700	1,451
Min.	5.6	1	3	223	8.6	85	0.6	7.7	89		112	21	16	0.05	0.00	33	472
12-1-70	7.2	7	4	228	12.0	99	0.9	7.8	93		123					112	
12-2-70	6.7	70	4	262	11.8	97	0.7	8.0	97		123					540	
12-3-70	6.7	6		244			1.0	7.9	92		128						

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
12-4-70	6.7	10	4	238	11.5	94	1.0	8.1	93		120						
12-7-70	5.0	40	4	225	12.2	96	1.1	8.1	93		123	3	18	1.45	0.0	240	
12-8-70	5.0	20	4	239	12.4	97	0.7	8.1	93		122					190	
12-9-70	5.6	15		247	12.1	96	0.6	8.0	96		128					120	
12-10-70	5.0	15	6	247	12.5	98	0.6	8.0	91		123					125	
12-11-70	5.0	10	6	251	12.5	98	0.6	8.1	94		126					200	
12-14-70	3.9	40	4	213	12.8	98	1.1	8.0	94		125	28	18	1.84	0.0	450	
12-15-70	3.9	45	4	255	12.6	96	1.2	8.0	93		125					9,200	
12-16-70	3.9	10	4	227	12.7	97	0.6	8.0	90		117					86	
12-17-70	3.9	10	4	220	12.9	98	0.5	8.0	90		115					62	
12-18-70	3.3	15	4		11.8	89	1.3	8.0	93		130					3,000	
12-21-70	3.3	15	4	234	12.3	96	0.9	8.0	94		131	31	18	0.50	0.0	2,270	
12-22-70	2.8	145	4	226	12.9	96	1.8	8.0	94		126					3,000	
12-23-70	2.2	25		239	12.4	90	1.3	8.0	97		138					420	
12-24-70	1.7	65		218	13.3	96	1.5	7.9	96		133					3,200	
12-28-70	1.1	25		217	13.5	96	0.6	7.9	93		115	24	17	1.30	0.0	115	
12-29-70	1.1	15		210	13.6	96	0.5	8.0	90		113					88	
12-30-70	0.6	10		222	13.9	97	0.5	8.0	91		121					58	
12-31-70	0.6	9		220	13.5	94	0.4	7.9	90		117					78	
Dec.Avg.	3.9	29	4	232	12.7	96	0.9	8.0	93		124	21	18	1.27	0.0	1,178	
Max.	7.2	145	6	262	13.9	98	1.8	8.1	97		138	31	18	1.84	0.0	9,200	
Min.	0.6	6	4	210	11.5	89	0.4	7.8	90		113	3	17	0.50	0.0	58	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
1-2-70	0.6	20	8	240	12.2	85	0.8	8.0	84		116					20	1,046
1-5-70	0.6	8	12				1.0			154			20			30	984
1-6-70	0.6	8														1	1,252
1-7-70	0.6	5	8	250	12.9	90	0.9	8.0	88		124	28				1	1,069
1-8-70	0.6	5	4	250	12.3	85	0.9	7.9	86		124			0.15	0.02	1	947
1-9-70	0.6	4	4	240	13.0	90	1.5	8.0	88		128					10	909
1-12-70	0.6	3	8	255	12.6	88	0.9	8.0	90	184	132	26				1	8
1-13-70	0.6	2	8	250	13.0	90	0.9	8.1	92		129		26	0.10	.	10	951
1-14-70	0.6	2	12	240	13.2	92	0.9	7.8	94		134					65	1,005
1-15-70	0.6	2	12	220	13.1	91	0.8	7.8	92		134				0.00	195	935
1-16-70	0.6	3	8	255	13.5	94			90		128					255	960
1-19-70	0.6	2	4		13.0	90	0.7	7.9	92	176	134		26		0.00	1	937
1-20-70	0.6	2	4	250	12.9	90	1.0	8.1	93		132	23		0.15		1	1,141
1-21-70	0.6	2	4	280	12.8	89	1.2	8.1	96		132					660	848
1-22-70	0.6	2	4	280	12.8	89	0.6	7.9	92		134					75	1,078
1-23-70	0.6	2	4	300	12.7	88	2.5	7.9	94		130					720	780
1-26-70	0.6	3	4	280			0.6	8.1	93	164	122					35	784
1-27-70	0.6	2	4	275	12.7	88	1.5	8.0	96		126					30	777
1-28-70	0.6	2	4	265			1.0	8.0	94		128			0.10	0.006	35	888
1-29-70	0.6	2	4	260	12.7	88	0.9	8.0	94		128					5	849
1-30-70	0.6	3	4													15	739
Jan. Avg.	0.6	4	6	258	12.8	91	1.0	8.0	92	170	129	26	24	0.13	0.007	103	899
Max.	0.6	20	12	300	13.5	94	2.5	8.1	96	184	134	28	26	0.15	0.02	720	1,252
Min.	0.6	2	4	220	12.2	85	0.6	7.8	84	154	116	23	20	0.10	0.00	1	8
2-2-70	0.6	2	2	270	12.9	90	0.8	8.1	96		128					15	1,444
2-3-70	0.6	4	2	275	12.4	86	1.4	8.1	92		128	23		0.08		50	1,385
2-4-70	0.6		4	255			1.0	8.0	94		132					580	903

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
2-5-70	0.6	7	8	240	12.8	89	1.6	8.0	92		130				0.008	245	779
2-6-70	0.6	3	2	275	13.2	92	1.1	8.1	94		130					325	2,653
2-9-70	0.6	3	4	300	12.9	90	0.7	8.1	90	170	132					1	1,900
2-10-70	0.6	20	4	255	13.1	91	1.5	8.0	92		130	25	25	0.38		490	2,781
2-11-70	0.6	3	4	250	13.1	91	1.5	8.0	96		130					1	1,857
2-13-70	0.6	9	8					7.4								1	2,223
2-16-70	0.6	2	4	260	13.0	90	0.6	8.0	94		128					5	1,772
2-17-70	0.6	2	4	310	13.3	92	0.7	8.0	94		126					5	1,569
2-18-70	0.6	3	4	300	12.8	89	0.7	8.0	92		130				0.00	280	1,848
2-20-70	0.6	1	4	280			0.6	8.1	90		132					5	1,475
2-24-70	0.6	2	4	270			0.9	8.0	92	186	130	23		0.12		5	1,329
2-25-70	0.6	2	4	295			1.0	8.1	88		129					10	1,199
2-26-70	0.6	8	4	305	13.4	93	0.6	8.2	90		132		24			230	1,331
2-27-70	0.6	25	4	285	12.4	86	0.7	8.1	90		129					35	1,065
Feb. Avg.	0.6	6	4	277	13.0	91	1.0	8.0	92	175	130	24	25	0.20	0.001	134	1,618
Max.	0.6	25	8	310	13.4	93	1.6	8.2	96	186	132	25	25	0.38	0.008	580	2,781
Min.	0.6	1	2	240	12.4	86	0.6	7.4	88	157	126	23	24	0.08	0.000	1	779
3-2-70	0.6	7	4	270	14.0	97		8.1	90	200	130	25	27			0	1,108
3-3-70	0.6	6	8	250	13.2	92	0.7	8.0	90		130			0.38	0.008	2	1,259
3-4-70	0.6	8	8													0	923
3-5-70	0.6	4	4	130			0.8	8.1	88		134					6	1,116
3-6-70	0.6	2	4	300	13.0	90	0.5	8.1	88		134					19	1,146
3-9-70		4	8	270	13.5		1.4	8.0	90		132					930	928
3-10-70	0.6	5	8	285	12.8	89	1.2	8.1	88	190	134	26	27	0.30	0.0	870	1,224
3-11-70	0.6	5	4	305	12.1	84	1.6	8.0	88		134					150	995
3-12-70	0.6	4		280	13.4	93	1.6	8.0	90		134					78	966
3-13-70		4														486	1,250

Table 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
3-16-70	0.6	2	4	265	13.6	95	0.9	8.2	90		128					0	1,103
3-17-70	0.6	2	4	265	13.8	96	0.7	8.1	90	174	134	26	27	0.13	0.0	0	1,546
3-18-70	0.6	1	8	250	13.4	93	0.6	8.1	88		130					12	1,947
3-19-70	0.6	1	4	255	12.0	83	0.6	8.2	92		130					4	2,650
3-20-70	0.6	1	8	270	13.6	95	0.8	8.0	90		130					54	2,120
3-23-70	0.6	1	8	255	13.2	92	1.1	8.1	92	152	128	23	24	0.05	0.0	2	2,355
3-24-70	0.6	2	8	250	13.7	95	1.0	8.3	86		122					2	2,219
3-25-70		1	8	255	13.4		1.1	8.4	86		120					0	2,259
3-26-70	0.6	2	8	260	13.0	90	0.9	8.3	86		124					4	2.257
3-27-70	1.1	25	8	260	12.6	89	1.4	8.4	94		146					26	2,564
3-30-70	1.1	6	4	130			1.1	8.4	94		152					2	3,149
3-31-70	1.1	4		270	11.9	84	1.0	8.2	120		150					0	3,075
Mar. Avg.	0.7	4	6	254	13.1	92	1.0	8.2	91	193	133	25	26	0.21	0.002	120	1.735
Max.	1.1	25	8	305	14.0	97	1.6	8.4	120	222	152	26	27	0.38	0.008	930	3,149
Min.	0.6	1	4	130	11.9	83	0.5	8.0	86	152	120	23	24	0.05	0.000	0	923
4-1-70	1.1	6	8	240			1.0	8.2	90	160	152	24	30	0.18	0.0	6	2,514
4-2-70	1.1	6	8	260			1.2	8.2	88		148					1	2,175
4-3-70	1.7	65	12	265			2.2	8.3	88		158					8	2,655
4-6-70	2.8	20	12	305	12.4	91	1.7	8.2	90	200	156					6	2,685
4-7-70	2.8	20	24	270	10.8	80	1.5	8.3	88		148	41	35	0.70	0.0	1	2,579
4-8-70	2.8	15	17	290	10.4	77	1.3	8.1	88		150					1	2,277
4-9-70	2.8	9	12	260	12.4	91	0.8	8.1	92		138					1	2,391
4-10-70	3.3	15	4		1 6	87										760	2,560
4-13-70	4.4	10	12	300	11.6	89	1.9	8.0	94		146	29	36	0,30	0.0	14	2,577
4-14-70	4.4	10	12	295	11.7	90	1.9	8.1	90		135					18	2,565
4-15-70	3.9	4	17	290	10.9	83	1.6	8.2	92		136					1	2,690
4-16-70	4.4	4	8	260			1.0	8.1	92		138					2	2,690
4-17-70	4.4	5	8	255	12.4	95	1.0	8.1	92		132					12	1,872

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
4-20-70	5.0	15	17	265	11.0	86	2.3	8.0	9	200	138	30	35	0.65		108	2,400
4-21-70	5.6	10	12	260	11.7	93	1.9	8.1	90		140					22	1,993
4-22-70	6.1	10	12	260	11.6	93	1.9	8.2	90		128					24	1,866
4-23-70	5.6	6	12	250	11.7	93	1.1	8.2	88		126					1	1,609
4-24-70	6.1	4	8	255	10.9	87	1.0	8.1	9		126					30	2,193
4-27-70	6.6	7	12	245	11.8	96	1.4	8.1	90	174	124	23	34	0.42		10	2,020
4-28-70	6.6	5	12	250	11.0	89	1.2	8.1	90		128					18	1,753
4-29-70	6.6	4	8	250	12.0	97	0.8	8.1	88		124					1	1,604
4-30-70	6.6	3	8	265	12.2	99	0.9	8.2	92		126					1	1,726
Apr. Avg.	4.3	12	12	266	11.6	90	1.4	8.1	82	184	138	29	34	0.45	0.0	48	2,245
Max.	6.6	65	24	305	12.4	99	2.3	8.3	94	200	158	41	36	0.70	0.0	760	2,690
Min.	1.1	3	4	240	10.4	77	0.8	8.0	9	160	124	23	30	0.18	0.0	1	1,604
5-1-70	6,6	3	8	260	11.1	90	0.9	8.2	92		130					0	629
5-4-70	8.9	4	24	255			1.8	8.2	94	182	128	28		0.28		10	574
5-5-70	8.9	4	12	260	12.2	105	1.3	8.0	92		126					45	579
5-6-70	8.9	8	12	245	12.0	103	1.3	8.3	91		128					28	465
5-7-70	8.9	15	8	250			1.5	8.2	94		126					840	572
5-8-70	10.6	15	12	252	10.9	97	1.0	8.5	86		132					568	664
5-11-70	9.4	8	12	270	12.3	107	1.2	8.2	92	194	128	25	31			1,400	711
5-12-70	8.9	5	12	275	11.3	97	1.3	8.1	92		127					8	556
5-13-70	8.9	2	12	285	11.7	100	1.1	8.5	90		124					0	599
5-14-70	10.6	2	8	250	12.0	107	1.0	8.5	88		128					30	680
5-15-70	15.6	2	8	260	10.8	108	1.2	8.1	90		130					99	655
5-18-70	12.2	3	12	240	10.8	100	1.2	8.2	90	174	131	25		0.18	0.0	8	12
5-19-70	12.2	3	17	250	10.4	96	1.0	8.2	92		128					141	587
5-20-70	12.2	4	17	270	10.4	96	1.2	8.2	88		128					80	815
5-21-70	12.8	3	12	255	10.1	95	0.9	8.5	88		128					14	599
5-22-70	12.8	4	12		9.5	89	1.0	8.2	90		128					22	590

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
5-25-70	12.5	2	8	280	9.7	91	1.2	8.2	86		121	27	23	0.10	0.0	0	1,101
5-26-70	12.2	2	17	295	9.5	88	1.4	8.2	87		124					59	983
5-27-70	16.6	6	24		9.5	97	1.2	8.5	90		126					42	786
5-28-70	16.0	5	17	300	9.2	92	1.5		92		137					12	884
May Avg.	11.3	5	13	264	10.7	98	1.2	8.3	90	183	128	26	27	0.19	0.0	170	652
Max.	16.6	15	24	300	12.3	108	1.8	8.5	94	194	137	28	31	0.28	0.0	1,400	1,101
Min.	6.6	2	8	240	9.2	88	0.9	8.0	86	174	121	25	23	0.10	0.0	0	12
6-1-70	15.5	5	12	260	8.8	88	1.6	8.6	88		124	26	22	0.15	0.0	28	761
6-2-70	15.5	3	24	260	9.3	93	1.8	8.4	88		130					16	1,349
6-3-70	16.7	2	17	290			1.1	8.3	88		128					166	1,027
6-4-70	16.7	3	17	280	8.3	85	1.2	8.4	90		131					20	1,178
6-5-70	17.8	3	12	279	8.0	84	1.4	8.3	85		132					672	
6-8-70	17.8	4	17	285	8.5	89	1.5	8.1	88		128	27	23	0.18	0.0	96	558
6-9-70	18.3	4	12	300	8.5	90	1.7	8.1	90		128					1,120	1,003
6-10-70	18.3	3	12	295	8.5	90	1.6	8.2	88		128					33	877
6-11-70	18.9	3	12	270	8.2	88	1.8	8.1	82		125					145	987
6-12-70	18.9	3	12	280	8.3	89	1.9	8.1	88		128					151	759
6-15-70	13.3	7	24	250			1.8	7.6	88		130	25	22	0.10	0.0	112	1,107
6-16-70		5	35	285	6.4		1.6	7.7	86		123					277	1,342
6-17-70	16.7	3		290	7.8	80	1.5	8.1	85		124					541	1,222
6-18-70	17.8	3	24	315	7.7	80	1.8	8.0	88		130					1,440	839
6-19-70	19.4	2	24	275	7.8	84	1.8	8.1	88		122					9,200	692
6-22-70	19.4	4	24	290	8.0	86	1.6	8.1	88		122		22	0.15	0.0	18,800	1.130
6-23-70	19.4	2	17	280	7.8	84	1.6	8.1	87		120					16,000	1,158
6-24-70	20.0	2	12	295	8.2	89	1.4	8.2	88		114					13,300	863
6-25-70	20.0	5	24	270	8.3	90	1.8	8.1	90		124					13,000	921
6-26-70	20.0	3	17	270	8.5	93	1.8	8.0	82		122					12,600	1,199
6-29-70	20.0	4	24	265	8.4	91	1.6	8.0	88		120	26		0.05	0.0	10,900	1,003
6-30-70	20.0	4	17	270			1.3	8.1	88		125					2,500	754

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
June Avg.	18.1	4	18	280	8.2	87	1.6	8.1	87		125	26	22	0.13	0.0	4,402	987
Max.	20.0	7	35	315	9.3	93	1.9	8.6	90		132	27	23	0.18	0.0	18,800	1,349
Min.	13.3	2	12	250	6.4	80	1.1	7.6	82		114	25	22	0.05	0.0	16	558
7-1-70	20.0	4	17	275	7.8	85	1.7	8.2	88		120					3,300	925
7-2-70	20.0	3	24	275	7.6	83	1.7	8.1	86		121					2,100	805
7-3-70	20.0		17	280			1.9	8.1	86		123					146	1,356
7-6-70	21.1	6	24	275	7.3	81	1.7	8.1	88		124	25	23	0.08	0.03	173	652
7-7-70	21.1	3	24	270	7.6	84	1.9	8.4	86		122					220	661
7-8-70	21.1	3	12	280	7.4	82	1.9	8.1	86		118					160	1,274
7-9-70	21.1	1	17	280	8.3	92	1.4	8.3	85		120					980	973
7-10-70	21.1	10	24	280	7.6	84	1.6	8.5	85		118					256	1,688
7-13-70	21.1	5	17	270	8.5	94	1.3	8.1	82		125	24	21	0.15	0.0	3,000	
7-14-70	21.1	2	17	290	7.8	87	1.6	8.0	84		12[illegible]					476	2,308
7-15-70	21.7	1	17	290	8.7	98	1.3	8.1	86		12[illegible]					5,900	
7-16-70	22.2	3	24	290			1.3	8.3	84		122					880	2,500
7-17-70	22.2	3	17	285	7.9	89	0.8	8.3	86		124					340	3,846
7-20-70	21.7	2	17	285	7.6	85	1.5	8.2	84		122		25	0.08	0.0	4,300	4,103
7-21-70	21.7	5	17	275	7.6	85	1.9	8.3	86		126					520	3,727
7-22-70	21.7	3	8	275	8.1	91	1.4	8.2	90		124					3,300	3,457
7-23-70	21.7	2		275	8.1	91	1.2	8.2	87		131					2,000	3,523
7-24-70	21.7	1		285	8.1	91	1.5	8.3	85		126					4,500	
7-27-70	21.7	1	8	290	5.2	58	2.3	8.2	83		122	24	22	0.03	0.0	220	4,066
7-28-70	21.7	1	24	290	7.4	83	1.3	8.1	85		126					2,600	
7-29-70	21.7	1	24	285	6.8	76	1.7	8.0	85		129					400	2,910
7-30-70	22.2	1	24	280	7.1	80	2.9	8.1	84		124					436	3,804
7-31-70	22.2	1	24	255	7.0	79	3.5	7.7	85		126					4,100	2,821

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
July Avg.	21.3	3	19	280	7.6	85	1.7	8.2	85		124	24	23	0.09	0.01	1,681	2,389
Max.	22.2	10	24	290	8.7	98	3.5	8.5	90		131	25	25	0.15	0.03	5,900	4,103
Min.	20.0	1	8	255	5.2	58	0.8	7.7	82		118	24	21	0.03	0.00	40	652
8-3-70	24.4	1	70	290	8.0	94	3.1	8.6	84		124					4,000	
8-4-70	24.4	1	70	280	8.2	96	4.1	8.5	88		126					1,800	695
8-5-70	23.9	1	70	285	8.0	93	5.8	8.6	84		124					8,000	769
8-6-70	23.9	1	35	280	8.1	94	5.6	8.5	86		126					5,000	1,170
8-7-70	23.9	1		290	7.8	91	4.7	8.4	84		126					2,200	
8-10-70	23.9	1	24	295	7.2	84	4.6	8.3	87		128	24	24	0.08	0.0	6,200	
8-11-70	22.2	1	12	285	6.7	76	3.2	8.1	90		132					2,500	
8-12-70	22.2	6	12	295	6.7	76	3.4	7.4	87		128						
8-13-70	22.8	1	50	305	7.8	89	3.6	8.5	84		136					126	
8-14-70	24.4	1	24	300	7.9	93	5.3	8.6	87		128					10,600	
8-17-70	24.4	1	12	320	8.3	98	4.3	8.5	86		132					150	
8-18-70	24.4	1	17	300	8.5	100	3.5	8.6	84		132	25	26	0.00	0.0	450	
8-19-70	24.4	1	8	305	7.4	87	3.6	8.4	86		128					420	
8-20-70	25.0	1	8	320	7.8	93	2.2	8.6	84		124					620	
8-21-70	25.0	1	17	300	8.0	95	2.1	8.6	92		126					440	
8-24-70	24.4	8	24	300	8.1	95	1.9	8.1	88		130					170	
8-25-70	24.4	1	12	290	7.8	92	2.5	8.6	88		129					2,700	
8-26-70	23.9	1	12	300	8.2	96	2.2	8.6	89		129					220	
8-27-70	23.9	1	17	300			2.1	8.6	88		127					140	
8-28-70	23.9	1	17	300	8.3	97	2.3	8.6	88		130					120	
8-31-70	23.9	2	12	300	8.1	94	3.0	8.6	88		124	24	27	0.05	0.0	1,120	
Aug. Avg.	23.9	2	26	297	7.8	92	3.5	8.4	87		128	24	26	0.04	0.00	2,332	878
Max.	25.0	8	70	320	8.5	100	5.8	8.6	92		136	25	27	0.08	0.00	10,600	1,170
Min.	22.2	1	8	280	6.7	76	1.9	7.4	84		124	24	24	0.00	0.00	120	695

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
9-1-70	23.9	2	8	300	7.7	90	2.1	8.4	88		130					1,533	
9-2-70	23.3	2	9	295	7.7	89	2.9	8.5	86		128					2,800	
9-3-70	23.3	2		320	7.0	81	2.8	8.5	88		130					1,400	
9-4-70	23.2	2	6	300	7.9	91	1.9	8.6	88		129					620	
9-8-70	22.8	2	12	305	7.5	86	3.0	8.4	88		130	27	26	0.0	0.0	1,160	
9-9-70	22.8	2	12	300	7.8	89	1.2	8.4	85		131					1,360	
9-10-70	22.8	1	6	130	8.1	93	2.3	8.3	85		130					1,520	
9-11-70	22.2	2	8	295	7.8	88	2.1	8.3	90		126					1,500	
9-14-70		7	8	300	7.6		1.8	8.4	86		128	27	27	0.12	0.0	4,100	
9-15-70	21.7	6	8	300	7.9	89	1.5		88		130					6,300	
9-16-70	21.7	6	12	280	7.4	83	0.9	8.1	88		130					1,150	
9-17-70	21.7	5		280	7.9	89	0.8	8.1	88		131					2,000	
9-18-70	21.1	4	8	290	7.4	82	1.3	8.1	90		126					2,900	
9-21-70	21.1	4	12	300	7.7	86	1.4	8.1	89		128	24	27	0.06	0.0	2,000	2,000
9-22-70	21.1	4	8	290	7.5	83	1.4	8.2	86		128					2,300	
9-23-70	21.1	3	8	290	7.7	86	0.6	8.2	91		130					2,600	
9-24-70	21.7	3	12	290	7.1	80	0.7	8.2	90		128					120	
9-25-70	21.7	2	8	290	8.1	91	0.8	8.2	88		124					138	
9-28-70	21.7	6	4	270	7.9	89	1.0	8.2	86		124		24	0.12		138	
9-30-70	20.6	5	4	265	8.1	89	1.3	8.3	86		126					3,000	
Sept. Avg.	22.0	4	8	285	7.7	87	1.6	8.3	88		128	26	26	0.08	0.0	1,931	2,000
Max.	23.9	7	12	320	8.1	93	3.0	8.6	91		131	27	27	0.12	0.0	6,300	2,000
Min.	20.6	1	4	130	7.0	80	0.6	8.1	85		124	24	24	0.00	0.0	120	2,000
10-1-70	20.0	9		275	8.2	89	1.4	8.3	88		128					6,900	
10-2-70	20.0	5		270	8.2	89	1.3	8.4			126					3,000	
10-5-70	18.9	9		255	8.4	90	2.0	8.3	84		124					1,500	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
10-6-70	18.3	8		255			1.6	8.3	86		126						
10-7-70	18.3	5		270	8.7	92	1.2	8.2	84		121					640	
10-8-70	18.3	5		260	8.5	90	1.4	8.2	86		126					2,000	
10-9-70	18.3	5		270	8.8	93	1.2	8.4	88		122					1,220	
10-12-70	17.7	4		270	9.0	94	1.7	8.5	90		128					133	
10-13-70	17.7	3		265	9.2	96	1.1	8.4	94		124					1,750	
10-14-70	17.7	5		275	9.4	98	1.6	8.4	90		126					900	
10-15-70	17.7	10		275	9.1	95	1.3	8.2	94		124					1,520	
10-16-70	17.7	20		270	9.1	95	1.6	8.3	94		126					6,000	
10-19-70	16.1	8		260	9.5	96	1.1	8.2	94		124					10,600	
10-20-70	16.1	8		260	9.5	96	1.2	8.3	94		122					1,400	
10-21-70	15.5	6		265	9.7	97	1.5	8.3	90		122					740	
10-22-70	15.5	5		240	9.9	99	1.2	8.3	94		124					1,520	
10-23-70	15.5	4		250	10.0	100	1.1	8.3	96		126					720	
10-26-70	15.0	7		260	10.0	99	1.5	8.2	96		122					760	
10-27-70	15.5	5		255	9.8	98	1.1	8.2	96		124					160	
10-28-70	14.9	5		240	10.2	101	1.1	8.2	90		122					533	
10-29-70	14.9	5		255	10.4	103	1.4	8.2	90		124					3,000	
10-30-70	14.9	5		245	10.0	99	1.2	8.2	96		122					920	
																600	
Oct. Avg.	17.0	7		261	9.3	95	1.4	8.3	91		124						
Max.	20.0	20		275	10.4	103	2.0	8.5	96		128					2,114	
Min.	14.9	3		240	8.2	89	1.1	8.2	84		121					10,600	
																133	
11-2-70	14.4	2	4	245	9.9	97	1.4	8.1	92		122	23	24	0.03	0.0		
11-4-70	14.4	3	4	230	9.9	97	1.3	8.1	76		118					1,020	
11-5-70	14.4	15	6	230	9.9	97	1.4	8.1	90		116					2,700	
11-6-70	13.3	7	2	255	10.0	96	0.9	8.2	82		119					5,200	
																980	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
11-9-70	12.8	5	4	245	10.0	95	1.3	8.1	90		120	22	19	0	0.0	460	
11-10-70	12.8	4	2	255	9.9	94	1.2	8.2	88		120					860	
11-12-70	12.8	4	6	240			1.4	8.1	86		122					700	
11-13-70	12.8	4	6	240	10.3	97	1.2	8.0	82		122					1,533	
11-16-70	11.7	40	4	250	9.9	91	1.2	7.9	86		126	25	17	0	0.0		
11-17-70	10.6	25	4	245	10.5	94	1.2	8.0	84		112					4,813	
11-18-70	10.6	25	4	245	10.6	95	1.1	8.0	86		108					460	
11-19-70	10.0	10	4	255	10.6	94	1.1	8.1	86		114					180	
11-20-70	10.0	10	4	240	10.8	95	1.0	8.1	86		110					666	
11-23-70	10.0	55	2	250	11.0	97	1.6	8.0	88		116	21	16	1.75	0.11	2,700	
11-24-70	8.3	100	6	240	10.9	93	1.6	8.0	86		118					5,300	
11-25-70	7.2	40	6	240	11.4	94	1.3	8.1	86		110					460	
11-27-70	6.1	40	2	250	12.0	97	1.0	8.3	86		114					766	
11-30-70	7.2	10	6	245	11.8	98	1.1	8.0	86		116	23	17	0.20	0.0	32	
Nov. Avg.	11.1	22	4	244	10.6	95	1.2	8.1	86		117	23	19	0.40	0.02	1,696	
Max.	14.4	100	6	255	12.0	98	1.6	8.3	92		126	25	24	1.75	0.11	5,300	
Min.	6.1	2	2	230	9.9	91	0.9	7.9	76		108	21	16	0.00	0.00	32	
12-1-70	7.2	9		255	11.8	98	1.0	8.1	88		118					212	
12-2-70	7.2	7		255	11.8	98	1.1	8.1	87		115					140	
12-3-70	7.8	7		260	11.9	100	1.0	8.1	88		114					160	
12-4-70	7.8	35		260	11.8	99	1.3	8.1	86		118					1,675	
12-7-70	6.1	50		255	12.0	97	1.5	8.0	96		128	28	18	1.47	0.0	256	
12-8-70	6.1	20		260	12.7	102	0.7	8.1	90		118					175	
12-9-70	5.5	20		260	12.4	99	0.7	8.1	96		122					56	
12-10-70	5.5	15		300	12.2	97	0.6	8.2	92		124					18	
12-11-70	5.5	10		230	12.2	97	0.8	8.1	92		122					43	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond	DO	% Sat.	Cl. Dem.	pH	T. Alk	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
12-14-70	5.0	80		265	12.5	98	1.4	8.0	90		118	23	20	1.67	0.0	16	
12-15-70	4.4	85		265	12.9	100	1.3	8.0	86		122					375	
12-16-70	4.4	35		255	12.7	98	1.0	8.1	88		120					93	
12-17-70		35		245	12.7		1.1	8.0	86		124					2,850	
12-18-70	3.9	20		230	13.0	99	0.8	8.0	90		118					40	
12-21-70	3.9	20		240	12.9	98	0.8	8.1	88		118	23	21	0.63	0.0	360	
12-22-70	3.9	60		255	13.2	101	1.1	8.0	84		118					275	
12-23-70	3.3	15		340	13.1	98	0.8	8.0	92		118					40	
12-24-70	3.3	45		280	13.2	99	1.5	8.1	92		122					925	
12-28-70	1.7	30		270	13.3	96	1.3	8.1	86		122	24	16	0.98	0.0	75	
12-29-70	1.1	40		270	13.3	94	1.1	8.1	89		122					103	
12-30-70	1.7	25		255	13.4	96	0.9	8.2	90		118					503	
12-31-70	1.7	6		260	13.5	97	0.8	8.1	86		118					255	
Dec. Avg.	4.6	30		262	12.7	98	1.0	8.1	89		120	25	19	1.19	0.0	393	
Max.	7.8	85		340	13.5	102	1.5	8.2	96		128	28	21	1.67	0.0	2,850	
Min.	1.1	6		230	11.8	94	0.6	8.0	84		114	23	16	0.63	0.0	16	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Baldwin - C2104

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
1-6-70										175						210	1,059
1-27-70										172						120	1,038
Jan. Avg.										174						165	1,049
Max.										175						210	1,059
Min.										172						120	1,038
2-2-70										159						<3	1,031
2-16-70										184						4	3,263
Feb. Avg.										172						4	2,147
Max.										184						4	3.263
Min.										159						3	1,031
3-2-70																4	
3-17-70																<2	
3-23-70	2.5	1	2	294			0.1	8.0	88	120			20			8	
3-24-70	2.5	1	2	288			1.2	8.2	89	116			21			8	
3-25-70	2.5	1		320			0.4	7.9	86	114			22			3	
3-26-70	2.5	1	3	294			0.5	8.0	88	122			21			4	
3-27-70	2.5	10	6	301			0.7	8.2	86				22			18	
3-30-70	2.5	15	3	307			0.8	8.2	87	120			21			17	
3-31-70	2.5	10	3	305			0.9	8.1	86				22			11	
Mar. Avg.	2.5	6	3	301			0.7	8.1	87	118			21			8	
Max.	2.5	15	6	320			1.2	8.2	89	122			22			18	
Min.	2.5	1	2	288			0.1	7.9	86	114			20			2	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Baldwin - C2104

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
4-1-70	2.8	7	1	294			0.8	8.0	84		122		22				3
4-2-70	2.9	15	2	297			0.6	7.9	84		123		23				2
4-3-70	2.8	75	2	294			1.3	8.0	86								14
4-6-70		20	2	332			1.0	7.9	86		120		21				6
4-7-70	3.3	15	1	330			1.1	7.9	84		123		24				6
4-8-70	4.0	25	2	307			1.2	7.9	86		122		25				
4-9-70		20	2	300			0.9	7.9	86		123		23				11
4-13-70	5.0	10	2	326			1.5	7.7	85		122		22				11
4-14-70	5.4	10		310			1.6	7.8	86								2
4-15-70	5.1	4	3	307			1.1	7.9	85		123		22				3
4-16-70	5.1	2	3	307			0.4	7.7	87				23				4
4-17-70	5.0	9					0.6										5
4-20-70	5.7	20					1.1										16
4-21-70	6.4	20	2	269			1.4	7.6	83		125		23				9
4-27-70	6.7	7					1.3										4
4-28-70	7.9	5	4	256			0.9	7.9	81		122		22				18
4-29-70	8.3	4	4	260			0.9	7.9	83								14
4-30-70	8.3	4	4	260			0.9	7.9	83		123		22				23
Apr. Avg.	5.3	15	2	297			1.0	7.9	85		123		23				9
Max.	8.3	75	4	332			1.6	8.0	87		125		25				23
Min.	2.8	2	1	256			0.4	7.6	81		120		21				2
5-1-70	8.3	4	3	345			1.0	8.1	84		124		23				30
5-4-70	8.9	5	4	339			1.5	8.0	84		124		23				39
5-5-70	9.2	4		341			1.3	8.1	86		124		23				4
5-6-70	8.9	30		336			1.6	8.2	86								
5-7-70	9.0	25		336			1.0	8.2	9								4
5-8-70	9.8	25					1.1										
5-11-70	11.0	9	4	338			0.3	8.2	85		122						

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Baldwin - C2104

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
5-12-70	11.0	10	3	330			1.6	8.3	88		123						
5-13-70	11.2	10	3	330			1.1	8.3	86		123						
5-14-70	11.0	8		325			1.2	8.4	90		121		22				14
5-15-70	11.8	10		330			1.2	8.3	88		123		23				8
5-18-70	12.0	6	2	320			0.4	8.1	89		123		22				11
5-19-70							0.9										15
5-20-70	12.3	6	2	309			1.3	8.3	89		124		23				12
5-21-70	12.2	6					0.9										8
5-22-70	12.5	7		301			0.9	8.2	88		123		22				9
5-25-70	14.4	6	2	246			1.5	8.3	89		122		22				34
5-26-70	14.2	6					0.8										23
5-27-70	14.1	10	2	345			1.2	8.4	89		122		22				18
5-28-70	14.3	7					1.4										16
5-29-70	15.5	9					1.7										21
May Avg.	11.6	10	3	325			1.1	8.2	82		123		23				17
Max.	15.5	30	4	345			1.7	8.4	90		124		24				39
Min.	8.3	4	2	246			0.3	8.0	9		121		22				4
6-1-70	16.0	6	3	357			1.5	8.4	89		124		24				23
6-2-70	16.0	6	3				1.8				124		23				18
6-3-70	16.6	8	3	382			1.6	8.4	89		123		23				12
6-4-70	16.5	7		378			1.7	8.4	89		124		23				36
6-5-70	16.5	3					1.6				124		23				
6-8-70	17.1	6	3	363			1.1				124		23				38
6-9-70	17.7	5	3	351			1.8				124		23				35
6-10-70	17.8	7	3	345			2.0				123		23				47
6-11-70	18.0	7	3	345			2.5				123		23				40
6-12-70	18.5	7	4	345			2.9				123		23				55

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Baldwin - C2104

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
6-15-70	18.0	6	4	345	1.9						124	23				246	
6-16-70	18.0	9	4	331	1.7						124	23				173	
6-17-70	18.3	6			1.5						125	24					
6-18-70	18.6	6	4	320	1.0						124	23				144	
6-19-70	18.9	6		320	0.9						124	23				177	
6-22-70	18.9	6	3		1.1						123	23				112	
6-23-70	19.0	6	3	381	1.3						125	24				95	
6-24-70	19.5	6	3	384	1.3						124	23				77	
6-25-70	19.4	9	3		1.2						123	23				68	
6-26-70	19.4	6	3	320	1.2						123	23				116	
6-29-70	19.5	9	3	322	1.3						123	23				83	
6-30-70	19.6	5	3	320	1.3						124	23				157	
June Avg.	18.1	6	3	348	1.6			8.4	89		124	23				89	
Max.	19.6	9	4	384	2.9			8.4	89		125	24				246	
Min.	16.0	3	3	320	0.9			8.4	89		123	23				12	

July - December (No data submitted by Ohio Department of Health).

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham - D2301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
1-1-70	0.6	20					1.6										
1-2-70	0.6	9	1	269			1.9	8.3	94							240	
1-3-70	0.6	9					1.7									21	
1-4-70	0.6	8					1.8									23	
1-5-70	0.6	7	1	270			1.7	8.2	94							9	
1-6-70	0.6	6	1	270			1.7	8.2	93							4	
1-7-70	0.6	6	1	272			1.7	8.3	94							4	
1-8-70	0.6	4	1	272			1.7	8.3	94							0	
1-9-70	0.6	4	1	273			1.8	8.3	94							3	
1-10-70	0.6	2					1.7									3	
1-11-70	0.6	2					1.7									0	
1-12-70	0.6	2	1	275			1.6	8.5	94							0	
1-13-70	0.6	2	1	275			1.6	8.1	92							0	
1-14-70	0.6	2	1	276			1.6	8.2	93							0	
1-15-70	0.6	2	1	276			1.6	8.2	93							4	
1-16-70	0.6	2	1	276			1.6	8.2	94							4	
1-17-70	0.6	2														7	
1-18-70	0.6	2															
1-19-70	0.6	2	1	276			1.5	8.2	94								
1-20-70	0.6	1	1	278			1.5	8.2	94							93	
1-21-70	0.6	2	1	278			1.5	8.2	93							460	
1-22-70	0.6	2	1	281			1.7	8.2	93							150	
1-23-70	0.6	2	1	280			1.5	8.2	93							93	
1-24-70	0.6	2														93	
1-25-70	0.6	2															
1-26-70	0.6	2	1	287			1.7	8.2	93							210	
1-27-70	0.6	2	1	287			1.7	8.2	92							1200	
1-28-70	0.6	2	1	289			1.7	8.1	92							43	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham - D2301

Date	T	TB	TO	Cond.	DO % Sat.	Cl.Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
1-29-70	0.6	2	1	290		1.7	8.1	91							23	
1-30-70	0.6	2	1	289		1.6									9	
1-31-70	0.6	2							178	124	24	25	0.30			
Jan. Avg.	0.6	4	1	278		1.7	8.2	93	178	124	24	25	0.30		104	
Max.	0.6	20	1	290		1.9	8.5	94	178	124	24	25	0.30		1200	
Min.	0.6	1	1	269		1.5	8.1	91	178	124	24	25	0.30		0	
2-1-70	0.6	9														
2-2-70	0.6	3	1	289		0.5	8.3	89							93	
2-3-70	0.6	3		290		0.7	8.2	89							23	
2-4-70	0.6	3		290		0.7	8.2	89							15	
2-5-70	0.6	5		292		1.2	8.3	90							39	
2-6-70	0.6	3		292		0.7	8.3	90							9	
2-7-70	0.6	2														
2-8-70	0.6	2														
2-9-70	0.6	2	1	292		0.5	8.4	91							43	
2-10-70	0.6	2		293		0.5	8.3	91							9	
2-11-70	0.6	3		295		1.3	8.3	90							210	
2-12-70	0.6	10		295												
2-13-70	0.6	8		295		1.1	8.3	90							460	
2-14-70	0.6	5				0.6	8.3	91								
2-15-70	0.6	2				0.4										
2-16-70	0.6	3	1	293		0.5									23	
2-17-70	0.6	3		294		1.1									460	
2-18-70	0.6	3		295		1.3									460	
2-19-70	0.6	5		297		0.9									150	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham - D2301

Date	T	TB	TO	Cond.	DO % Sat.	Cl.Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
2-20-70	0.6	4		297		0.7									240	
2-21-70	0.6	3				0.8										
2-22-70	0.6	4				0.9										
2-23-70	0.6	3	2	298		0.7										
2-24-70	0.6	3		298		0.8									4	
2-25-70	0.6	3		298		1.0									9	
2-26-70	0.6	3		298		0.7									23	
2-27-70	0.6	5		298		0.8									1100	
2-28-70	0.6	6							192	128	25	25	0.40			
Feb. Avg.	0.6	4	1.3	294		0.8	8.3	90	**192**	128	25	25	0.40		187	
Max.	0.6	10	2.0	298		1.3	8.4	91	**192**	128	25	25	0.40		1100	
Min.	0.6	2	1.0	289		0.4	8.2	89	**192**	128	25	25	0.40		4	
3-1-70	0.6	4														
3-2-70	0.6	4		298		0.5									9	
3-3-70	0.6	4	2	300		0.4									0	
3-4-70	0.6	6		300		0.5	8.4	90							4	
3-5-70	0.6	5		300		0.5	8.4	90							4	
3-6-70	0.6	5	2	300		0.5	8.4	90							15	
3-7-70	0.6	4														
3-8-70	0.6	4														
3-9-70	0.6	5		301		1.0	8.3	90							93	
3-10-70	0.6	4	2	303		1.2	8.3	90							93	
3-11-70	0.6	4		303		0.9	8.2	90							43	
3-12-70	0.6	4	2	303		1.3	8.2								0	
3-13-70	1.1	4		305		1.0	8.2	89							21	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham - D2301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.Dem.	pH	T.Alk.	TDS	Hard	SO4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
3-14-70	1.1	4															
3-15-70	1.1	4															
3-16-70	1.1	5	2	307			2.1									240	
3-17-70	1.1	4		307			1.9	8.1	91							460	
3-18-70	1.1	4		305			2.0	8.1	90							93	
3-19-70	1.1	3		304			2.0	8.1	88							460	
3-20-70	1.1	3		304			2.3	8.1	88							240	
3-21-70	1.1	3															
3-22-70	1.1	3															
3-23-70	1.1	2		302			0.8									15	
3-24-70	1.1	3	2	302			0.6	8.2	86							240	
3-25-70	1.1	3	4	302			0.7	8.2	88							9	
3-26-70	1.1	10	2	303			0.8	8.3	88							0	
3-27-70	1.1	40	2	303			1.1	8.3	87							9	
3-28-70	1.1	10															
3-29-70	1.1	7															
3-30-70	1.1	8	2	304			0.9									15	
3-31-70	1.1	9	2	305			1.1	8.3	86	194	126	26	25	0.06		21	
Mar. Avg.	0.9	6	2.2	303			1.2	8.2	89	194	126	26	25	0.06		95	
Max.	1.1	40	4.0	307			2.3	8.4	91	194	126	26	25	0.06		460	
Min.	0.6	2	2.0	298			0.4	8.1	86	194	126	26	25	0.06		0	
4-1-70	1.1	10		305			0.8	8.2	86							9	
4-2-70	1.1	20	2.0	305			1.1	8.2	86							9	
4-3-70	1.7	100	2.0	305			1.7	8.2	86							21	
4-4-70	1.7	30															
4-5-70	1.7	25															
4-6-70	1.7	20	2.0	304			0.7	8.1	88							0	
4-7-70	2.8	20	2.0	302			0.8	8.1	89							4	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham -D2301

Date	T	TB	TO	Cond.	Do % Sat.	Cl.Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T.Fe	T. Mn	T.Coli.	Plankton
4-8-70	2.8	15	2	303		1.2	8.1	89							0	
4-9-70	2.8	10	2	303		1.0	8.1	89							0	
4-10-70	3.9	10	2	304		1.0	8.1	89							0	
4-11-70	3.9	7														
4-12-70	4.4	6														
4-13-70	4.4	9	2	305		1.2	8.1	89							0	
4-14-70	3.9	8		300		0.6									0	
4-15-70	4.4	6	2	298		0.9									0	
4-16-70	4.4	6	2	295		0.9	8.0	89							0	
4-17-70	5.0	5	2	295		0.8									0	
4-18-70	5.0	6														
4-19-70	5.0	6														
4-20-70	5.0	10	2	290		0.9	8.0	90							0	
4-21-70	6.1	10	2	289		1.5	8.0	90							0	
4-22-70	6.1	10	2	285		2.1	8.0	90							4	
4-23-70	6.1	7	2	285		1.3									0	
4-24-70	6.7	8	2	280		1.5									0	
4-25-70	6.7	6														
4-26-70	6.7	5	2													
4-27-70	6.7	4	2	278		1.1	7.9	88							0	
4-28-70	6.7	5	2	276		1.3	8.0	89							0	
4-29-70	6.7	4	2	274		1.2	8.0	90							9	
4-30-70	6.7	4	2	273						120	27	26	0.06	0.0	0	
Apr. Avg.	4.4	13	2	293		1.1	8.1	89		120	27	26	0.06	0.0	3	
Max.	6.7	100	2	305		2.1	8.2	90		120	27	26	0.06	0.0	21	
Min.	1.1	4	2	273		0.6	7.9	86		120	27	26	0.06	0.0	0	
5-1-70	7.8	4	1	273		1.3	8.1	90							4	
5-2-70	8.9	3														

TABLE 1 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham -D2301

Date	T	TB	TC	Cond.	Do % Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
5-3-70	8.9	3														
5-4-70	8.9	2		273		0.8	8.1	90								4
5-5-70	8.9	3	2	274		1.0	8.1	90								9
5-6-70	8.9	10	2	274		1.2	8.2	90								7
5-7-70	8.9	7	2	274		1.1	8.2	91								0
5-8-70	9.4	6	4	273		1.1	8.2	92								0
5-9-70	10.0	6														
5-10-70	11.1	5														
5-11-70	10.0	3	2	273		0.5	8.3	92								4
5-12-70	10.0	3	2	272		0.7	8.3	92								4
5-13-70	10.0	3	2	272		0.8	8.3	92								0
5-14-70	9.4	3	2	272		0.8	8.3	92								0
5-15-70	11.1	3	2	272		0.9	8.3	92								7
5-16-70	11.1	3														
5-17-70	10.0	3														
5-18-70	11.7	2	2	271		0.6	8.4	90								0
5-19-70	11.7	3	2	272		1.0	8.3	90								0
5-20-70						0.7	8.2	89								0
5-21-70	12.2	3		271		0.7	8.1	89								4
5-22-70	11.1	2		270		0.9	8.1	88								4
5-23-70	11.1	2														
5-24-70	11.1	3														
5-25-70	12.2	3		270		1.2	8.1	88			25	26	1.05	0.0		4
5-26-70	14.4	3		270		1.2	8.0	87								4
5-27-70	14.4	5		271		1.0	8.0	87								9
5-28-70	14.4	4		271		1.0	8.0	87								4
5-29-70	14.4	3														
5-30-70	14.4	5				0.9										
5-31-70	14.4	3		271						126						0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham - D2301

Date	T	TB	TO	Cond.	DO % Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
May Avg.	11.0	4	2	272		0.9	8.2	90		126	25	26	1.05	0.0	3	
Max.	14.4	10	4	274		1.3	8.4	92		126	25	26	1.05	0.0	9	
Min.	7.8	2	1	270		0.5	8.0	87		126	25	26	1.05	0.0	0	
6-1-70	15.0	3	2	271		1.3	7.9	88			26	23	0.16	0.0	4	
6-2-70	13.9	4	1	271		1.3	7.9	88							4	
6-3-70	11.1	3	1	272		1.1	8.0	89							4	
6-4-70	9.4	3	2	273		1.4	8.0	88							0	
6-5-70	9.4	3	2	272		1.4	7.9	88							4	
6-6-70	10.0	3														
6-7-70	9.4	4														
6-8-70	15.0	4	2	273		1.1	8.0	87			29	31	0.10	0.0	9	
6-9-70	16.1	5	2	274		1.4	7.9	87							23	
6-10-70	16.7	5	2	273		1.1	7.9	87							4	
6-11-70	16.7	4	2	275		1.1	7.8	88							0	
6-12-70	16.7	4	2	275		1.1	7.7	88							23	
6-13-70	13.3	5														
6-14-70	10.6	7														
6-15-70	10.0	7	2	276		1.4	7.7	88			24	24	0.10	0.0	9	
6-16-70	9.4	7	2	277		1.4	7.7	88							43	
6-17-70	10.0	6	2	277		0.4	7.8	87							9	
6-19-70	16.1	6	1	277		1.7	7.8	87							290	
6-19-70	18.9	6	2	277		1.6	7.9	87							93	
6-20-70	18.9	7														
6-21-70	18.9	7														
6-22-70	19.4	7	2	278		1.4	7.9	87			28	22	0.18	0.0	23	
6-23-70	19.4	5	2	278		1.2	8.0	87							23	
6-24-70	20.0	5	1	279		1.2	8.0	88							93	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham - D2301

Date	T	TB	TO	Cond.	DO % Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
6-25-70	19.4	7	2	280		1.1	8.0	88							15	
6-26-70	18.3	5	2	281		1.3	8.0	87							4	
6-27-70	18.9	5														
6-28-70	18.9	4														
6-29-70	19.4	5	2	281		1.2	8.0	88			28	23	0.18	0.00	150	
6-30-70	19.4	4	2	280		1.2	8.0	87		125					0	1500
June Avg.	15.4	5	2	276		1.2	7.9	88		125	27	25	0.14	0.00	38	1500
Max.	20.0	7	2	281		1.7	8.0	89		125	29	31	0.18	0.00	290	1500
Min.	9.4	3	1	271		0.4	7.7	87		125	24	22	0.10	0.00	0	1500
7-1-70	19.4	4	2	280		1.1	8.1	86							4	
7-2-70	19.4	4	2	280		1.1	8.1	86							7	
7-3-70	19.4	3														
7-4-70	19.4	3	2	281		1.3	8.2	85							0	
7-5-70	20.6	4														
7-6-70	21.1	4	2	281		1.3	8.2	85			24	23	0.08	0.00	21	
7-7-70	21.1	3	2	280		1.0	8.2	84							4	
7-8-70	21.1	3	1	280		0.9	8.2	84							7	
7-9-70	21.1	4	1	280		1.1	8.2	84							24	
7-10-70	21.1	2	2	282		1.1	8.1	85							7	
7-11-70	21.1	3														
7-12-70	20.0	2														
7-13-70	19.4	2	1	285		1.2	8.1	85			26	20	0.08	0.00	0	
7-14-70	20.6	3	1	284		0.9	8.2	86							23	
7-15-70	21.7	2	1	287		1.1	8.1	86							23	
7-16-70	21.7	2	1	288		1.0	8.1	87							93	
7-17-70	21.7	5	1	290		1.2	8.1	87							9	
7-18-70	21.7	3														
7-19-70	21.7	3														
7-20-70	21.7	4	2	292		1.0	8.1	88			26	26	0.08	0.00	13	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham - D2301

Date	T	TB	TC	Cond.	DO % Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
7-21-70	21.1	6	2	292		1.3	8.0	88							0	
7-22-70	21.1	4	2	293		1.2	8.0	89							0	
7-23-70	21.1	3	2	296		1.1	8.0	89							4	
7-24-70	21.7	2	2	295		1.0	8.1	90							4	
7-25-70	21.7	2														
7-26-70	21.7	2														
7-27-70	21.7	3	6	295		1.1	8.1	92			24	22	0.12	0.00	0	
7-28-70	21.7	2	15	297		1.7	8.1	92							4	
7-29-70	21.7	2	10	298		1.6	8.0	92							7	
7-30-70	21.7	2	10	300		1.9	8.0	93							3	
7-31-70	21.7	2	10	300		2.4	8.0	94		128					4	
July Avg.	21.0	3	3	289		1.2	8.1	88		128	25	23	0.09	0.00	11	
Max.	21.7	6	15	300		2.4	8.2	94		128	26	26	0.12	0.00	93	
Min.	19.4	2	1	280		0.9	8.0	84		128	24	20	0.08	0.00	0	
8-1-70	22.2	2														
8-2-70	22.8	2														
8-3-70	23.9	1	12	300		2.7	8.0	95			22	23		0.00	0	
8-4-70	23.3	1	20	300		2.5	8.0	96							4	
8-5-70	23.3	1	20	302		2.5	7.9	96							4	
8-6-70	23.3	1	15	303		2.6	7.9	97							42	
8-7-70	23.3	1	12	303		2.6	7.9	97							23	
8-8-70	22.8	1	12			2.5										
8-9-70	22.8	1	35			3.2										
8-10-70	23.3	1	10	304		2.6	7.8	98			26	29	0.02	0.00	0	
8-11-70	23.9	1	12	305		2.2	7.8	98							0	
8-12-70	23.3	1	12	305		2.1	7.7	99							4	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham - D2301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
8-13-70	23.3	1	8	305			2.2	7.7	99								0
8-14-70	22.8	1	6	306			2.4	7.7	98								0
8-15-70	21.1	1					2.2										
8-16-70	22.8	1															
8-17-70	22.8	1	5	307			2.1	7.7	97			25	25	0.02	0.00		150
8-18-70	23.3	1	5	305			1.6	7.7	98								20
8-19-70	22.2	1	5	304			1.7	7.8	97								9
8-20-70	22.8	1	4	303			2.6	7.9	96								7
8-21-70	23.3	1	4	303			1.4	7.9	96								9
8-22-70	22.8	1															
8-23-70	23.3	1															
8-24-70	23.9	1	4	301			2.1	8.0	95			23	26	0.10	0.00		9
8-25-70	23.3	1	4	300			1.7	8.0	95								93
8-26-70	23.9	1	4	300			1.5	8.1	95								4
8-27-70	23.3	1	4	300			1.2	8.1	94								9
8-28-70	23.3	1	4	300			1.3	8.1	95								4
8-29-70	23.3	1															
8-30-70	23.3	1															
8-31-70	22.2	1	4	300			1.5	8.1	94		130	25	27	0.05	0.00		0
Aug. Avg.	23.0	1	10	303			2.1	7.9	96		130	24	26	0.05	0.00		19
Max.	23.9	2	35	307			3.2	8.1	99		130	26	29	0.10	0.00		150
Min.	21.1	1	4	300			1.2	7.7	94		130	22	23	0.02	0.00		0
9-1-70	22.8	1	4	300			1.5	8.2	94								
9-2-70	23.3	1	4	299			1.5	8.2	94								0
9-3-70	22.2	1	4	298			1.6	8.3	94								0
9-4-70	23.3	1	3	296			1.4	8.3	94								0
9-5-70	23.3	1															7
9-6-70	23.3	1	6	296			1.0	8.4	93								0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham - D2301

Date	T	TB	TO	Cond.	DO % Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
9-7-70	23.3	1														
9-8-70	23.3	1	6	298		1.3	8.4	93			25	25	0.08	0.00	0	
9-9-70	23.3	1	4	298		1.7	8.4	93							0	
9-10-70	23.3	1	3	298		1.0	8.4	93							0	
9-11-70	21.7	1	2	298		1.0	8.4	93							0	
9-12-70	21.7	1														
9-13-70	21.7	1														
9-14-70	22.2	4	2	300		0.8	8.3	92			25	27	0.08	0.00	0	
9-15-70	23.3	3	2	300		1.3	8.3	92							0	
9-16-70	22.2	2	2	298		1.2	8.3	92							0	
9-17-70	23.3	2	2	298		1.2	8.3	92							0	
9-18-70	23.3	2	2	297		0.8	8.4	91							0	
9-19-70	23.3	2														
9-20-70	23.3	2														
9-21-70	21.7	2	2	295		0.8	8.3	91			27	25	0.06	0.00	4	
9-22-70	21.7	2	2	295		1.2	8.3	92							9	
9-23-70	21.7	2	2	296		1.4	8.2	92							43	
9-24-70	21.7	2	2	294		1.2	8.2	93							43	
9-25-70	21.1	2	2	294		0.9	8.2	93							9	
9-26-70	21.1	2														
9-27-70	21.1	2														
9-28-70	21.1	3	2	295		1.0	8.1	93			26	25	0.05	0.00	0	
9-29-70	20.6	4	2	295		1.0	8.2	92							0	
9-30-70	20.6	4	2	295		1.0	8.2	92		130					0	
Sept. Avg.	22.3	2	2.8	297		1.2	8.3	93		130	26	26	0.07	0.00	5	
Max.	23.3	4	6.0	300		1.7	8.4	94		130	27	27	0.08	0.00	43	
Min.	20.6	1	2.0	294		0.8	8.1	91		130	25	25	0.05	0.00	0	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham -D2301

Date	T	TB	TO	Cond.	Do % Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
10-1-70	20.6	4		295		1.1	8.2	92								4
10-2-70	18.9	3		293		1.4	8.2	91								0
10-3-70	18.9	15														
10-4-70	18.9	45														
10-5-70	18.9	8		292		1.0	8.2	92			27	26	0.15	0.00		9
10-6-70	18.6	6		290		1.0	8.2	92								0
10-7-70	18.9	6		290		0.9	8.3	93								0
10-8-70	18.9	4		285		1.0	8.2	93								0
10-9-70	18.9	3		287		0.9	8.2	92								0
10-10-70	18.9	3														
10-11-70	18.9	3														
10-12-70	18.9	3		285		1.1	8.1	91			22	28	0.07	0.00		0
10-13-70	18.9	3		280		1.0	8.1	91								43
10-14-70	18.9	3		280		1.0	8.1	91								43
10-15-70	17.2	7		282		1.3	8.0	90								460
10-16-70	16.1	10		280		1.5	8.0	90								460
10-17-70	16.1	8														
10-18-70	16.1	9														
10-19-70	16.1	7		283		0.9	8.0	91			23	24	0.10	0.00		43
10-20-70	16.1	3		280		0.8	8.1	90								9
10-21-70	15.6	3		278		0.9	8.0	90								0
10-22-70	15.6	2		278		0.9	8.1	89								7
10-23-70	15.0	3		278		1.7	8.1	89								93
10-24-70	15.0	3														
10-25-70	15.0	3														
10-26-70	15.0	3		280		1.8	8.1	89			27	29	0.08	0.00		460
10-27-70	15.0	3		280		1.8	8.0	90								1100
10-28-70	15.0	2		278		1.1	8.0	89								43
10-29-70	15.0	2		278		1.5	8.1	89								23
10-30-70	14.4	2		278		0.9	8.0	89								4

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham - D2301

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
10-31-70	14.4	2									129						
Oct. Avg.	17.1	6		283			1.2	8.1	91		129	25	27	0.10	0.00	127	
Max.	20.6	45		295			1.8	8.3	93		129	27	29	0.15	0.00	1100	
Min.	14.4	2		278			0.8	8.0	89		129	22	24	0.07	0.00	0	
11-1-70	14.4	3															
11-2-70	14.4	3		278			0.7	8.0	89		120	22	24	0.05	0.00	9	
11-3-70	14.4	2															
11-4-70	13.9	2		276			0.8	8.1	90							0	
11-5-70	13.9	8		276			1.0	8.0	89							0	
11-6-70	13.3	6		277			0.7	8.0	80							0	
11-7-70	13.3	4															
11-8-70	13.3	3															
11-9-70	13.3	2		278			0.4	7.9	90		120	21	20	0.15	0.00	0	
11-10-70	12.8	2		278			0.7	7.9	90							0	
11-11-70	12.8	3															
11-12-70	13.3	3		280			0.8	7.9	89							23	
11-13-70	12.2	2		280			0.7	8.0	88							0	
11-14-70	11.7	5					1.1										
11-15-70	11.7	25					1.2										
11-16-70	11.1	20		275			1.5	8.0	88		115	27	22	0.65	0.00	23	
11-17-70	11.1	15		270			0.9	8.2	89							75	
11-18-70	11.1	8		270			0.8	8.0	88							9	
11-19-70	11.1	6		265			0.6	8.0	87							9	
11-20-70	9.4	15		263			0.8	8.0	87		115					4	
11-21-70	9.4	45					0.7										
11-22-70	9.4	20					0.8										
11-23-70	7.2	150		260			1.8	8.0	86			23	18	1.80	0.18	93	
11-24-70	6.7	215		255			2.3	8.0	85							15	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham - D2301

Date	T	TB	TO	Cond.	DO % Sat.	Cl. Dem.	pH	T.Alk	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
11-25-70	6.7	65		245		1.0	8.1	87							93	
11-26-70	6.7	35		252		0.8	8.1	88								
11-27-70	6.7	20		265		0.7	8.2	89							93	
11-28-70	6.7	15				0.9										
11-29-70	6.7	15				0.7										
11-30-70	6.7	10		270		0.6	8.2	92		124	24	17	0.23	0.00	9	
Nov. Avg.	10.8	24		269		0.9	8.0	88		118	23	20	0.58	0.04	25	
Max.	14.4	215		280		2.3	8.2	92		124	27	24	1.80	0.18	93	
Min.	6.7	2		245		0.4	7.9	85		115	21	17	0.05	0.00	0	
12-1-70	6.1	10		283		0.7	8.1	90							43	
12-2-70	6.1	10		284		0.8	8.1	91							43	
12-3-70	6.7	15		285		0.7	8.2	91							93	
12-4-70	6.7	105		285		1.4	8.2	92							43	
12-5-70	6.7	50				1.0										
12-6-70	6.7	200				2.1										
12-7-70	6.7	90		288		0.9	8.2	91			27	19	1.58	0.00	93	
12-8-70	6.1	25		290		0.7	8.2	92							15	
12-9-70	6.1	25		290		0.5	8.2	92							43	
12-10-70	6.1	20		290		0.6	8.2	92							0	
12-11-70	5.6	25		290		0.6	8.2	92		124					0	
12-12-70	5.6	75				0.9										
12-13-70	5.0	40				0.8										
12-14-70	5.6	55		290		0.8	8.2	92			24	19	1.85	0.00	15	
12-15-70	4.4	40		288		0.6	8.2	92							9	
12-16-70	3.9	30		285		0.6	8.1	91							4	
12-17-70	3.3	30		285		0.7	8.1	91							240	
12-18-70	3.3	25		285		0.6	8.0	90							240	
12-19-70	3.3	30		287		0.8	8.0	91								
12-20-70	4.4	50				0.9										

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Nottingham - D2301

Date	T	TB	TO	Cond.	Do % Sat.	Cl. Dem.	pH	T.Alk.	TDS	Hard	SO_4	Cl	T.Fe	T.Mn	T.Coli.	Plankton
12-21-70	3.9	15		290		0.5	8.0	91		123	25	21	0.35	0.00	23	
12-22-70	3.9	55		290		0.8	8.1	90							93	
12-23-70	3.9	30		291		0.5	8.2	90							4	
12-24-70	2.8	95		293		0.8	8.2	91								
12-25-70	2.8	40				0.6										
12-26-70	2.2	65				0.5									23	
12-27-70	2.2	60				0.6										
12-28-70	1.7	55		295		0.7	8.2	91		123	26	17	1.05	0.00	9	
12-29-70	1.7	30		290		0.5	8.2	92							93	
12-30-70	1.7	25		290		0.9	8.2	92							1100	
12-31-70	1.7	25		290		0.7	8.2	92							15	
Dec. Avg.	4.4	47		288		0.8	8.2	91		123	26	19	1.24	0.00	98	
Max.	6.7	200		295		2.1	8.2	92		124	27	21	1.85	0.00	1100	
Min.	1.7	10		283		0.5	8.0	90		123	24	17	0.35	0.00	0	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
1-1-70	0.5	60				2.5	8.1	104		194		105			430
1-2-70	0.5	60		13.3	92	3.5	8.2	106		208		108			930
1-3-70	0.5	30				2.4	8.2	106		166		66			750
1-4-70	0.5	15				2.3	8.2	104		134		54			4,300
1-5-70	0.5	4		13.3	92	2.0	7.8	102		126		42			430
1-6-70	0.5	8		13.3	92	1.2	7.8	90		144		40			230
1-7-70	0.5	8		13.3	92	1.2	7.7	92		140		40			430
1-8-70	0.0	0		13.3	91	1.3	7.8	95		156		43			90
1-9-70	0.5	0		13.3	92	1.1	7.7	96		140		46			40
1-10-70	0.5	0		13.3	92	0.7	7.8	94		160		50			40
1-11-70	0.5	0		13.3	92	1.0	7.7	100		150		43			430
1-12-70	0.5	4		13.9	96	1.3	7.8	94		170		45			230
1-13-70	0.5	0		13.0	90	1.3	7.8	94		132		50			230
1-14-70	0.0	0		13.9	95	1.1	7.8	96		146		45			1,500
1-15-70	0.5	0		13.3	92	1.7	7.8	96		138		45			1,500
1-16-70	0.0	0		13.3	91	1.0	7.8	94		144		47			430
1-17-70	0.0	0				1.5	7.8	94		172		44			230
1-18-70	0.0	0				1.3	7.8	94		156		47			90
1-19-70	0.0	0		13.9	95	0.3	7.8	94		152		45			40
1-20-70	0.5	0		13.3	92	1.3	7.8	94		150		50			430
1-21-70	0.5	4				1.3	7.8	92		136		52			40
1-22-70	0.5	0				1.4	7.8	108		153		42			3,900
1-23-70	0.5	0		13.6	94	1.7	7.8	92		132		58			930
1-24-70	0.5	0				1.8	7.8	98		164		42			230
1-25-70	0.5	0				2.6	7.5	108		185		60			230
1-26-70	0.5	0		13.3	92	1.8	7.6	92		140		53			230
1-27-70	0.5	0		12.7	88	2.0	7.8	98		154		50			2,300
1-28-70	0.5	0		12.7	88	1.9	7.8	94		148		50			4,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-29-70	0.5	4		13.3	92	1.5	7.8	106		136		47			9,300
1-30-70	0.5	8		12.7	88	2.5	7.8	96		140		45			2,300
1-31-70	0.5	15				0.7	7.7	100		136		48			930
Jan. Avg.	0.4	7		13.3	93	1.6	7.8	98		152		52			1,122
Max.	0.5	60		13.9	96	3.5	8.2	108		208		108			9,300
Min.	0.0	0		12.7	88	0.3	7.5	90		126		40			40
2-1-70	0.5	20				1.6	7.7	102		132		53			2,300
2-2-70	0.5	15		13.3	92	1.4	7.8	90		140		45			90
2-3-70	0.5	15		13.3	92	1.3	7.8	90		140		50			2,300
2-4-70	0.0	15		13.3	91	1.1	7.8	98		170		47			1,500
2-5-70	0.0	10				1.6	7.6	98		150		47			430
2-6-70	0.5	20		12.7	88	2.0	7.5	104		146		48			930
2-7-70	0.0	20		13.3	91	1.9	7.9	96		140		50			1,500
2-8-70	0.5	20		13.3	92	1.9	7.7	102		146		50			1,500
2-9-70	0.5	25		12.0	83	1.9	7.8	96		160		50			2,300
2-10-70	0.5	20		13.3	92	1.9	7.8	94		136		50			430
2-11-70	0.0	4		12.0	82	1.7	7.8	94		140		55			2,300
2-12-70	0.2	15		12.7	87	1.9	7.8	90		140		50			430
2-13-70	0.5	20		11.5	80	2.0	7.7	90		180		62			4,300
2-14-70	0.5	20				2.3	7.8	90		156		62			930
2-15-70	0.5	8				1.6	7.6	94		140		54			90
2-16-70	0.5	15				2.2	7.8	92		156		49			930
2-17-70	0.5	20		12.0	83	1.9	7.8	90		152		56			430
2-18-70	0.5	10		12.0	83	2.1	7.8	90		142		57			210
2-19-70	0.5	10		12.7	88	2.1	7.8	88		136		53			230
2-20-70	0.5	15		12.7	88	2.4	7.9	90		138		55			2,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-21-70	0.5	20				2.1	7.8	98		146		60			230
2-22-70	0.5	10				2.4	7.6	98		156		75			70
2-23-70	0.5	8		12.7	88	1.9	7.8	90		140		63			230
2-24-70	0.5	20		12.7	88	2.2	7.8	86		160		78			430
2-25-70	0.8	8		13.3	93	2.8	7.8	90		146		73			230
2-26-70	0.5	15		12.7	88	2.9	7.8	86		142		67			230
2-27-70	0.5	10		12.7	88	2.9	7.8	88		156		74			40
2-28-70	0.5	10				2.5	7.8	90		150		60			150
Feb. Avg.	0.4	15		12.7	89	2.0	7.8	93		148		57			966
Max.	0.8	25		13.3	93	2.9	7.9	104		180		78			4,300
Min.	0.0	4		11.5	80	1.1	7.5	86		132		45			40
3-1-70	0.5	15				2.9	7.8	92		138		54			430
3-2-70	1.0	15		12.7	89	2.5	7.8	88		132		45			390
3-3-70	0.5	10		12.7	88	3.2	7.8	90		140		50			750
3-4-70	0.5	15		13.3	92	2.8	7.8	90		164		46			4,300
3-5-70	0.8	15		13.3	93	2.8	7.7	100		154		50			930
3-6-70	2.0	25		13.3	96	2.3	7.8	106		150		46			430
3-7-70	1.0	15		13.3	93	2.4	7.8	100		156		52			4,300
3-8-70	1.5	20		13.3	95	2.3	7.8	104		140		50			430
3-9-70	0.5	25		12.7	88	1.6	7.8	86		166		50			2,100
3-10-70	0.8	30		13.3	93	1.8	7.9	86		140		60			930
3-11-70	0.5	30		13.3	92	2.0	7.8	90		150		69			750
3-12-70	0.8	20		13.3	93	1.6	7.9	84		140		68			430
3-13-70	0.5	20		13.3	92	1.5	7.9	86		154		60			90
3-14-70	0.8	15				1.7	7.8	94		156		65			90
3-15-70	0.8	20				1.3	8.0	94		149		74			150

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-16-70	0.8	10		13.3	93	1.3	7.9	86		164		55			150
3-17-70	0.8	10		12.7	89	1.1	7.9	88		150		60			90
3-18-70	0.5	10		13.0	90	1.7	7.9	86		156		60			0
3-19-70	0.8	10		13.0	91	1.4	7.8	92		150		65			0
3-20-70	0.5	10		12.0	83	1.4	7.8	90		156		62			90
3-21-70	0.5	8				1.6	7.8	108		200		75			90
3-22-70	0.5	8				1.2	8.1	90		212		70			0
3-23-70	0.8	15		13.0	91	1.5	7.9	86		156		58			90
3-24-70	0.5	15		13.3	92	2.5	7.5	86		140		60			40
3-25-70	0.8	10		12.7	89	2.7	7.8	86		150		55			230
3-26-70	0.8	15		13.3	93	2.9	7.8	88		166		53			930
3-27-70	1.0	270		7.9	55	3.8	7.7	108		154		51			240,000
3-28-70	2.0	120				3.9	8.1	100		15[illegible]		50			930
3-29-70	2.0	80				2.9	7.9	100		[illegible]		47			9,300
3-30-70	1.0	100		10.4	73	3.0	7.7	90		1[illegible]		64			4,300
3-31-70	1.0	70		12.0	84	2.9	7.8	80		20[illegible]		50			390
Mar. Avg.	0.9	34		12.6	90	2.2	7.8	92		156		57			8,811
Max.	2.0	270		13.3	96	3.9	8.1	108		212		75			240,000
Min.	0.5	8		7.9	55	1.1	7.5	80		132		45			0
4-1-70	2.0	85		12.7	92	1.7	8.0	86		166		65			930
4-2-70	2.0	75		12.0	87	3.2	7.4	100		200		70			930
4-3-70	2.5	140		10.4	76	3.8	7.8	108		140		45			24,000
4-4-70	3.0	100		9.6	71	4.0	7.5	108		144		50			9,300
4-5-70	2.5	90				3.6	7.8	88		140		45			4,300
4-6-70	3.0	70		10.0	74	4.2	7.8	90		170		74			4,300
4-7-70	4.0	15		11.5	87	3.3	7.8	90		140		46			4,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
4-8-70	4.0	70		10.9	83	2.8	7.8	96		164		45			7,500
4-9-70	4.0	70		12.0	91	3.2	7.6	94		156		48			46,000
4-10-70	4.5	75				3.8	7.8	94		144		42			2,300
4-11-70	5.0	55				3.6	8.0	98		142		45			930
4-12-70	5.0	30				3.5	8.1	90		140		57			430
4-13-70	5.5	110		10.0	79	3.4	7.6	88		162		66			930
4-14-70	5.0	70		10.4	81	3.0	7.8	90		146		50			930
4-15-70	5.0	50		12.7	99	2.6	7.9	92		190		47			390
4-16-70	5.0	50		12.7	99	2.0	7.9	92		140		40			430
4-17-70	6.0	40		12.0	96	1.6	7.8	106		170		65			140
4-18-70	7.0	44				2.3	7.8	102		130		69			0
4-19-70	7.0	45				2.3	7.9	100		138		50			390
4-20-70	6.5	90		12.7	103	2.5	7.7	82		146		52			2,400
4-21-70	7.0	65		11.4	93	2.8	8.1	96		150		50			2,400
4-22-70	7.0	40		11.4	93	4.4	7.8	96		148		48			46,000
4-23-70	8.0	35				4.3	8.0	92		140		47			24,000
4-24-70	8.0	30		11.4	96	4.3	7.9	90		150		45			2,400
4-25-70	9.0	50				6.3	7.8	88		148		50			0
4-26-70	9.5	35				4.2	7.8	90		142		50			230
4-27-70	8.0	20		10.9	91	3.5	8.0	92		148		47			930
4-28-70	8.0	20		10.4	87	3.3	7.9	88		150		44			90
4-29-70	8.5	20		12.5	106	3.4	7.9	90		150		45			230
4-30-70	8.0	15		10.4	87	3.2	7.9	88		140		45			430
Apr. Avg.	5.7	60		11.3	90	3.3	7.8	93		151		51			6,221
Max.	9.5	140		12.7	106	6.3	8.1	108		200		74			46,000
Min.	2.0	15		9.6	71	1.6	7.4	82		130		40			0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-1-70	11.5	20		11.4	104	3.4	8.0	90		140		43			4,300
5-2-70	12.0	40		11.4	105	4.7	7.9	100		154		60			4,300
5-3-70	11.5	15		9.6	87	4.6	7.7	104		152		60			15,000
5-4-70	12.0	20		10.9	100	3.8	8.1	98		150		45			4,300
5-5-70	11.0	20		10.9	98	4.0	7.8	94		148		43			2,100
5-6-70	11.5	85		9.6	87	3.3	7.9	92		152		58			2,400
5-7-70	11.0	50		10.4	93	2.8	8.0	94		150		63			430
6-8-70	10.5	45		9.6	85	2.4	7.9	94		150		62			91
5-9-70	12.0	25				2.4	8.1	100		138		53			91
5-10-70	13.0	30				3.0	7.9	98		146		45			210
5-11-70	14.0	30		9.6	93	2.6	8.0	92		136		45			930
5-12-70	13.0	30		9.2	87	3.2	8.0	94		140		43			91
5-13-70	13.5	25		9.6	92	2.8	7.9	98		148		45			230
5-14-70	13.0	30		10.0	95	2.8	8.1	98		146		42			9,300
5-15-70	13.0	30		9.2	87	3.3	7.9	106		186		48			91
5-16-70	15.0	25				3.0	7.8	104		154		50			430
5-17-70	13.5	35		10.0	96	3.5	7.8	100		140		40			230
5-18-70	13.5	25		9.6	92	2.2	7.9	92		140		42			2,900
5-19-70	14.0	20		10.0	97	2.2	8.2	98		138		40			4,300
5-20-70	15.0	15		9.6	95	3.4	8.1	96		146		42			730
5-21-70	13.0	10		9.6	91	2.0	8.2	92		140		40			230
5-22-70	14.0	10		9.6	93	2.7	8.2	92		130		40			430
5-23-70	16.0	8				1.9	8.0	96		136		42			230
5-24-70	13.5	15				2.2	8.0	98		144		45			730
5-25-70	13.0	15		9.6	91	2.4	8.2	102		134		40			930
5-26-70	15.0	10		8.2	81	2.5	7.9	100		130		40			430
5-27-70	15.5	90		7.9	79	3.1	7.8	106		146		40			9,300
5-28-70	16.0	55		7.9	79	2.7	7.8	98		150		27			2,400

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-29-70	16.0	90		9.7	97	2.4	7.8	94		130		23			4,300
5-30-70	16.0	50		9.2	92	2.9	7.8	108		140		25			1,500
5-31-70	17.0	30				2.7	7.8	104		136		32			430
May Avg.	13.5	32		9.7	92	2.9	8.0	98		144		44			2,367
Max.	17.0	90		11.4	105	4.7	8.2	108		186		63			15,000
Min.	10.5	8		7.9	79	1.9	7.7	90		130		23			91
6-1-70	17.0	30		7.2	74	2.6	8.2	100		140		25			430
6-2-70	17.5	15		7.9	82	2.5	8.0	96		158		18			2,400
6-3-70	18.5	25				3.7	7.9	100		140		31			2,400
6-4-70	17.5	30		7.2	75	2.5	7.9	96		132		35			430
6-5-70	12.5	15		6.5	61	2.9	7.8	98		132		22			430
6-6-70	14.0	15				2.3	8.0	102		136		27			91
6-7-70	14.5	20				2.8	8.0	104		134		35			91
6-8-70	15.0	25				2.1	8.0	106		138		38			230
6-9-70	17.0	20				2.4	8.4	106		140		34			15,000
6-10-70	18.5	10		7.9	84	2.4	8.0	98		136		38			930
6-11-70	18.5	10		8.5	90	2.8	8.1	98		132		35			930
6-12-70	20.0	10		7.9	86	3.2	8.1	100		136		34			930
6-13-70	16.0	15		6.7	68	2.9	7.8	94		138		36			930
6-14-70	10.0	20		6.1	54	3.2	7.5	96		130		34			2,400
6-15-70	13.0	15				3.0	7.8	98		136		32			3,900
6-16-70	19.0	10		6.7	72	2.8	8.0	94		130		32			430
6-17-70	19.5	10		7.2	78	3.9	7.9	96		132		38			1,500
6-18-70	20.0	30		7.2	78	4.1	7.9	96		130		35			2,400
6-19-70	20.0	45		6.5	71	5.8	7.9	96		134		37			21,000
6-20-70	20.0	30		6.1	66	4.9	7.7	92		132		32			930

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - 52601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-21-70	20.0	15		6.1	66	5.0	7.8	98		132		30			4,300
6-22-70	19.5	15		6.7	72	3.4	7.8	94		136		37			2,400
6-23-70	20.5	10		7.0	77	3.6	7.9	94		136		32			1,500
6-24-70	20.5	8		7.4	81	2.9	7.9	96		130		32			930
6-25-70	20.5	55		7.4	81	2.8	7.9	96		136		32			9,300
6-26-70	20.0	8		7.4	81	2.6	7.9	96		130		32			2,400
6-27-70	20.0	65		7.9	86	3.1	7.9	98		140		40			2,400
6-28-70	20.0	15		7.9	86	2.5	7.2	98		142		37			230
6-29-70	21.0	30		7.9	88	2.3	7.9	98		140		40			2,400
6-30-70	21.0	55		5.9	65	1.5	7.9	96		150		30			24,000
June Avg.	18.0	22		7.1	76	3.1	7.9	98		136		33			3,588
Max.	21.0	65		8.5	90	5.8	8.4	106		158		40			24,000
Min.	10.0	8		5.9	54	1.5	7.2	92		130		18			91
7-1-70	21.0	20		7.0	78	2.4	7.9	94		134		27			2,100
7-2-70	23.0	10				2.2	8.0	98		148		22			430
7-3-70	22.0	15				2.8	8.0	96		128		27			430
7-4-70	23.0	15				3.4	8.1	98		132		25			150
7-5-70	23.0	60		8.5	98	9.2	7.8	100		136		29			210
7-6-70	24.0	30		7.4	86	3.7	8.1	98		130		25			230
7-7-70	23.0	20		7.4	85	3.2	7.9	96		132		31			150
7-8-70	23.5	10		7.9	91	3.6	8.0	100		130		30			430
7-9-70	23.0	25				2.7	8.0	100		130		22			1,100
7-10-70	23.5	20				3.3	7.9	98		136		24			1,500
7-11-70	23.0	40				2.9	8.0	100		130		29			930
7-12-70	24.0	30		8.2	96	2.8	8.1	108		136		31			930
7-13-70	22.5	10		8.2	93	2.1	7.9	100		124		33			430

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
7-14-70	22.0	25		6.3	71	2.4	7.9	96		134		22			430
7-15-70	23.0	30		8.9	102	2.6	7.9	104		130		24			430
7-16-70	23.5	85		7.0	81	4.5	8.3	96		122		28			24,000
7-17-70	23.5	55		6.3	73	2.2	7.9	102		134		25			930
7-18-70	23.0	45				3.9	7.9	100		128		27			430
7-19-70	22.5	4				3.6	7.9	90		130		26			230
7-20-70	22.5	30		7.7	88	3.2	7.7	90		128		30			110,000
7-21-70	21.5	75		6.3	70	3.4	7.9	94		130		30			2,400
7-22-70	21.5	30		6.7	75	3.2	7.9	92		130		22			1,500
7-23-70	21.5	20		6.7	75	2.9	7.9	96		130		27			430
7-24-70	22.0	15		7.0	79	2.7	7.9	98		132		26			2,000
7-25-70	22.5	20		7.9	90	2.7	7.8	94		130		22			1,100
7-26-70	22.5	10		7.0	80	2.8	8.0	96		130		27			430
7-27-70	24.0	20		10.4	121	3.0	7.8	90		128		29			4,300
7-28-70	24.5	15				3.5	8.1	88		126		26			230
7-29-70	25.0	10		9.2	109	3.9	8.3	90		124		27			430
7-30-70	25.0	20		8.5	101	4.8	8.3	90		120		28			7,300
7-31-70	25.0	25		8.9	106	5.5	8.3	94		120		22			430
July Avg.	23.0	26		7.7	89	3.4	8.0	96		130		27			5,356
Max.	25.0	85		10.4	122	9.2	8.3	108		148		33			110,000
Min.	21.0	4		6.3	72	2.1	7.7	88		120		22			150
8-1-70	25.0	20		7.5	89	7.4	8.4	94		120		22			230
8-2-70	25.5	65		7.0	84	5.8	8.3	94		132		25			930
8-3-70	25.5	110		7.2	86	7.0	8.5	96		126		27			4,300
8-4-70	24.5	75		6.1	72	7.0	8.3	84		130		30			930
8-5-70	24.0	25		5.7	67	8.0	8.4	96		160		30			930
8-6-70	24.0	15		5.2	61	6.1	8.2	100		148		66			200

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-7-70	24.0	10		5.2	61	5.7	8.2	96		154	60				91
8-8-70	24.0	30				6.6	8.0	104		156	48				1,100
8-9-70	22.5	15				6.2	7.9	101		140	39				230
8-10-70	23.5	20				5.0	8.0	99		148	40				930
8-11-70	22.0	20		1.3	15	3.8	7.6	100		150	40				9,300
8-12-70	21.5	15		0.8	9	4.6	7.8	102		136	35				430
8-13-70	22.0	10		1.7	19	2.6	7.6	98		140	30				430
8-14-70	24.5	10		7.9	93	1.7	8.3	92		134	34				36
8-15-70	25.0	20		7.9	94	1.3	8.2	90		136	37				230
8-16-70	25.5	8		7.9	95	1.0	8.4	96		136	36				930
8-17-70	25.5	45		7.2	86	1.5	7.7	96		136	35				750
8-18-70	25.5	20		6.7	80	1.6	8.3	94		130	37				930
8-19-70	26.0	15		6.1	74	1.7	8.1	96		132	32				930
8-20-70	25.5	20		6.3	75	1.9	8.0	110		133	35				230
8-21-70	25.0	20		6.5	77	1.9	8.4	90		136	30				750
8-22-70	25.0	10		7.0	83	1.3	8.2	100		130	30				210
8-23-70	24.0	10		7.0	82	1.9	8.0	100		146	40				24,000
8-24-70	23.5	20		6.1	71	1.5	8.4	94		130	32				1,500
8-25-70	24.0	20		7.7	90	1.4	8.0	96		140	32				2,100
8-26-70	24.0	10		7.2	84	1.4	8.3	100		132	35				1,100
8-27-70	24.0	8		7.4	86	1.4	7.9	100		136	32				2,400
8-28-70	24.5	8		7.2	85	1.6	8.3	98		140	27				2,100
8-29-70	24.5	20				1.4	8.3	100		134	36				4,300
8-30-70	25.0	10				2.5	7.9	100		134	40				210
8-31-70	24.0	50				2.1	8.0	100		138	32				640
Aug. Avg.	24.3	24		6.2	73	3.4	8.1	97		138	36				2,044
Max.	26.0	110		7.9	96	8.0	8.5	110		160	66				24,000
Min.	21.5	8		0.8	9	1.0	7.6	84		120	22				36

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
9-1-70	23.0	20		6.5	75	2.2	8.2	98		146		42			2,400
9-2-70	23.0	8		7.0	80	2.6	8.3	98		158		45			430
9-3-70	23.0	8		7.4	85	2.4	8.4	96		154		54			3,600
9-4-70	23.0	110		6.7	77	2.6	7.7	100		134		25			9,300
9-5-70	23.0	65		6.5	75	3.4	8.2	96		144		25			4,300
9-6-70	23.0	30		7.2	83	3.5	8.3	100		146		30			12,000
9-7-70	22.5	10				2.1	8.0	104		138		28			2,000
9-8-70	22.5	10		6.7	76	1.9	8.2	98		136		33			1,500
9-9-70	23.0	15		7.9	91	1.7	8.2	102		138		32			2,400
9-10-70	22.5	20		7.2	82	2.5	8.2	98		140		27			2,900
9-11-70	22.0	75		6.5	73	2.7	8.4	104		142		39			9,300
9-12-70	22.0	40				1.8	8.4	100		144		36			24,000
9-13-70	22.0	25				2.1	8.6	102		136		38			230
9-14-70	21.5	80		6.5	73	2.9	8.1	100		170		62			9,300
9-15-70	21.0	45		6.5	72	2.1	8.1	100		140		32			2,400
9-16-70	22.0	35		7.2	81	2.1	7.9	96		136		28			430
9-17-70	21.5	30		7.0	78	1.8	7.8	98		140		32			2,400
9-18-70	21.0	10		6.7	74	1.8	8.1	94		132		29			750
9-19-70	22.0	40		7.2	81	1.8	7.9	96		140		38			1,500
9-20-70	22.0	30		7.2	81	2.0	7.9	100		136		30			9,300
9-21-70	21.5	20				2.8	8.2	100		130		30			750
9-22-70	23.0	10		7.7	88	2.6	8.2	92		136		32			930
9-23-70	23.0	10		7.4	85	1.7	8.2	100		140		30			2,400
9-24-70	23.0	25		7.0	80	2.1	8.3	94		130		32			
9-25-70	22.5	20		6.5	74	3.0	8.0	98		136		32			4,300
9-26-70	23.0	15		7.0	80	1.4	7.8	106		140		30			240,000
9-27-70	22.0	45				1.6	7.8	96		130		47			4,300
9-28-70	21.0	90		6.3	70	2.6	7.8	100		140		34			2,100

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
9-29-70	19.5	85		6.7	72	2.3	7.8	104		136		27			9,300
9-30-70	19.0	75		7.4	79	1.9	7.8	98		134		27			4,300
Sept. Avg.	22.0	36		7.0	79	2.3	8.1	99		140		34			12,718
Max.	23.0	110		7.9	91	3.5	8.6	106		170		62			240,000
Min.	19.0	8		6.3	70	1.4	7.7	92		130		25			230
10-1-70	18.5	60		7.7	82	1.6	8.1	110		140		30			24,000
10-2-70	18.5	30		8.2	87	0.8	8.1	96		144		42			46,000
10-3-70	18.5	105				0.9	8.0	100		138		40			9,300
10-4-70	17.5	100				1.6	8.0	102		144		44			2,400
10-5-70	17.0	75		7.2	74	1.5	7.8	98		150		27			4,300
10-6-70	16.8	75		7.7	79	1.1	7.9	96		146		26			4,300
10-7-70	17.0	35		8.2	84	5.0	8.0	96		136		32			4,300
10-8-70	17.0	25		7.7	79	1.5	7.9	94		142		25			1,100
10-9-70	18.0	20		7.9	83	1.8	7.9	96		134		32			1,100
10-10-70	18.0	70				1.8	7.8	102		140		31			2,400
10-11-70	17.5	35				1.8	7.5	98		134		30			2,400
10-12-70	18.0	25		7.0	73	1.3	7.5	100		138		32			2,400
10-13-70	18.0	20				0.4	7.7	98		138		30			430
10-14-70	18.5	10		8.9	94	1.3	7.8	96		134		28			9,300
10-15-70	18.0	65		8.3	87	1.7	7.9	100		130		30			24,000
10-16-70	17.0	45		9.2	95	0.9	7.9	106		132		25			2,400
10-17-70	15.0	60		10.0	99	0.9	7.8	100		146		35			1,100
10-18-70	15.0	95		9.6	95	1.0	7.5	106		134		30			2,400
10-19-70	15.0	70		8.6	85	1.3	7.8	96		136		27			4,300
10-20-70	14.5	45		8.6	84	1.7	7.9	100		142		28			2,400
10-21-70	14.5	30		8.9	87	0.7	7.8	102		136		32			2,100
10-22-70	14.5	25		8.6	84	1.6	7.8	100		138		32			4,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-23-70	15.0	20		8.6	85	1.6	7.9	94		140		30			430
10-24-70	15.0	15				1.0	7.7	100		144		35			730
10-25-70	15.0	25				1.4	8.0	100		136		33			9,300
10-26-70	15.0	55		9.3	92	1.0	8.1	98		134		27			2,400
10-27-70	15.0	40		9.2	91	0.8	7.9	100		142		37			9,300
10-28-70	15.0	30		9.2	91	1.2	8.1	96		136		22			730
10-29-70	14.0	15		9 2	89	1.1	7.9	96		136		27			36
10-30-70	14.0	20		9.2	89	1.5	7.9	96		138		32			1,100
10-31-70	14.5	10				1.7	7.7	100		138		30			150
Oct. Avg.	16.3	43		8.6	86	1.4	7.9	99		139		31			5,836
Max.	18.5	105		10.0	98	5.0	8.1	110		150		44			46,000
Min.	14.0	10		7.0	74	0.4	7.5	94		130		22			36
11-1-70	15.0	10				1.5	7.6	96		142		34			200
11-2-70	14.0	15		8.9	86	0.5	7.9	96		136		32			2,800
11-3-70	14.0	30		8.9	86	1.4	7.8	96		136		22			2,000
11-4-70	13.5	15		8.6	83	1.5	7.7	98		132		36			4,300
11-5-70	13.0	50		8.6	82	2.1	7.8	100		138		29			9,300
11-6-70	12.5	50		8.6	81	2.1		98		130		27			9,300
11-7-70	12.0	75		8.3	77	1.7	7.8	98		134		26			4,300
11-8-70	12.0	40		8.9	82	2.2	7.5	100		140		25			930
11-9-70	12.0	45		8.6	79	1.7	7.8	94		134		30			1,500
11-10-70	12.0	10		9.2	85	1.0	7.9	96		130		22			930
11-11-70	13.0	20		10.4	99	0.9	7.8	96		126		25			230
11-12-70	12.0	8		9.6	89	0.9	8.0	94		132		22			930
11-13-70	12.0	40		9.2	85	1.1	7.8	92		170		62			930
11-14-70	11.5	35		10.4	95	1.5	7.9	94		146		39			430
11-15-70	11.0	40		10.4	94	1.4	7.8	96		170		65			4,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
11-16-70	10.0	55		9.2	81	1.4	7.9	96		150		47			430
11-17-70	9.5	140		9.2	80	0.7	8.0	94		156		49			4,300
11-18-70	9.5	45		10.0	87	1.3	7.5	98		150		35			4,300
11-19-70	10.0	35		9.2	81	1.2	7.9	90		152		29			1,500
11-20-70	9.5	30				0.9	7.8	94		160		38			2,400
11-21-70	9.0	170				2.0	7.7	98		140		47			93,000
11-22-70	9.0	80				2.6	7.7	98		160		40			24,000
11-23-70	8.0	215		4.9	41	3.2	7.8	98		140		28			9,300
11-24-70	7.0	180				4.4	7.9	96		174		50			9,300
11-25-70	6.5	145				4.0	7.7	100		150		30			4,300
11-26-70	6.0	170				2.2	7.7	100		128		28			2,400
11-27-70	6.0	125				2.5	7.8	98		140		30			930
11-28-70	7.0	90				2.0	7.7	100		150		32			430
11-29-70	6.0	65				1.0	7.7	96		134		29			15,000
11-30-70	7.0	70				1.4	7.7	102		144		30			730
Nov. Avg.	10.3	70		9.0	83	1.7	7.8	97		144		35			7,157
Max.	15.0	215		10.4	98	4.4	8.0	102		174		65			93,000
Min.	6.0	8		4.9	41	0.5	7.5	90		126		22			200
12-1-70	6.8	50		9.2	75	1.4	7.7	84		120		30			24,000
12-2-70	7.0	75		12.1	100	1.5	7.8	86		130		22			9,300
12-3-70	7.0	40		11.4	94	2.1	7.6	96		130		25			4,300
12-4-70	7.0	135		10.0	82	3.0	7.7	84		138		24			110,000
12-5-70	6.5	100		12.1	99	3.3	7.8	92		130		31			4,300
12-6-70	6.0	180				3.3	7.7	94		144		28			110,000
12-7-70	5.0	240		10.4	82	3.4	7.5	100		140		23			24,000
12-8-70	4.0	125		10.4	80	1.3		92		120		20			4,300
12-9-70	4.0	115		10.4	80	2.8	7.7	92		142		20			4,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
12-10-70	4.5	105		10.9	84	2.1	7.6	90		126		22			15,000
12-11-70	4.5	95		11.5	89	2.0	7.4	98		134		24			230
12-12-70	5.0	145		12.1	95	2.7	7.9	96		140		22			9,300
12-13-70	5.0	95		13.3	104	2.8	7.7	102		140		25			9,300
12-14-70	4.5	105		11.5	89	2.8	7.6	92		124		24			110,000
12-15-70	4.5	110		11.5	89	2.2	7.8	90		132		22			7,500
12-16-70	4.0	80		11.5	88	2.2	7.8	90		130		22			46,000
12-17-70	4.0	50		12.1	93	3.0	7.7	98		132		32			24,000
12-18-70	4.0	60		11.5	88	1.5	7.8	90		130		22			4,300
12-19-70	4.0	50				1.7	7.6	94		130		30			4,300
12-20-70	4.0	95				2.2	7.7	96		130		30			24,000
12-21-70	4.0	60		11.5	88	3.2	7.6	92		140		27			930
12-22-70	3.5	85		11.5	87	2.4	7.7	92		152		22			2,400
12-23-70	3.5	60		11.5	87	2.4	7.7	90		134		27			9,300
12-24-70	3.0	80		11.5	86	2.4	7.6	90		130		22			46,000
12-25-70	3.0	70				2.3	7.6	86		134		24			24,000
12-26-70	2.5	95				1.4	7.5	94		136		28			4,300
12-27-70	2.5	90				1.6	7.6	88		140		30			2,400
12-28-70	1.5	70		12.1	87	1.0	7.7	98		136		24			1,500
12-29-70	1.0	75		13.3	94	1.2	7.7	88		130		22			920
12-30-70	1.0	75		12.7	90	1.2	7.7	94		132		25			4,300
12-31-70	1.0	55		12.7	90	1.5	7.8	96		136		29			1,500
Dec. Avg.	4.1	92		11.5	89	2.2	7.7	92		134		25			20,838
Max.	7.0	240		13.3	104	3.4	7.9	102		152		32			110,000
Min.	1.0	40		9.2	75	1.0	7.4	84		120		20			230

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-70	1.7	110				2.0	7.9	88		120		45			73
1-2-70	1.1	90		14.0	99	2.1	7.9	90		164		72			230
1-3-70	1.1	15	285	14.7	104	2.3	7.8	90	178	188	18	83	0.40	0.20	230
1-4-70	1.1	80				2.9	7.9	95		140		30			230
1-5-70	1.1	10		14.3	101	2.4	7.7	96		138		29			2,400
1-6-70	1.1	10		14.3	101	1.9	7.8	90		138		25			750
1-7-70	0.6	5		14.0	97	2.3	7.8	95		136		25			230
1-8-70	0.6	5		14.0	97	1.0	7.8	89		140		22			91
1-9-70	0.6	5		14.4	100	1.7	7.9	90		154		48			91
1-10-70	0.6	5	269	14.1	98	1.4	7.9	90	166	150	17	49	0.10	0.06	36
1-11-70	0.6	5				1.1	7.8	90		148		48			36
1-12-70	0.6	5		14.2	99	1.2	7.9	96		140		38			15
1-13-70	0.6	5		14.4	100	2.6	7.9	94		142		35			9
1-14-70	0.6	5		14.6	102	1.5	7.9	94		146		36			43
1-15-70	0.6	5		14.2	99	1.5	8.0	95		158		35			15
1-16-70	0.6	5		14.0	97	1.3	8.0	94		140		32			23
1-17-70	0.6	5	288	14.3	99	1.5	8.0	95	180	138	15	14	0.10	0.04	4
1-18-70	0.6	5				1.1	7.9	92		164		42			23
1-19-70	0.6	5		14.5	101	1.1	8.0	94		154		33			23
1-20-70	0.6	5		14.2	99	1.9	8.0	96		138		30			4
1-21-70	0.6	5		14.3	99	0.8	8.0	98		136		35			9
1-22-70	0.6	5		14.2	99	0.9	8.0	98		136		21			4
1-23-70	0.6	5		14.1	98	0.8	7.9	98		136		31			4
1-24-70	0.6	5		13.8	96	0.8	7.9	98		160		33			4
1-25-70	0.6	5		14.1	98	0.9	7.9	98		148		32			4
1-26-70	0.6	5		13.8	96	0.6	8.1	94		140		32			7
1-27-70	0.6	5		14.3	99	0.9	8.1	95		150		30			0
1-28-70	0.6	5		14.1	98	1.1	8.0	94		140		31			0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-29-70	0.6	5		14.2	99	1.2	8.1	93		138		36			0
1-30-70	0.6	5		14.3	99	1.3	8.0	93		136		42			23
1-31-70	0.6	5	294	13.7	95	2.2			184		12		0.10	0.04	43
Jan. Avg.	0.7	14	284	14.2	99	1.5	7.9	94	177	145	16	36	0.18	0.09	150
Max.	1.7	110	294	14.7	104	2.9	8.1	98	184	188	18	83	0.40	0.20	2,400
Min.	0.6	5	269	13.7	95	0.6	7.7	88	166	120	12	14	0.10	0.04	0
2-1-70	0.6	10		13.8	96	4.2	7.7	85		160		59			2,400
2-2-70	0.6	10		13.9	97	4.1	7.9	72		130		60			2,400
2-3-70	0.6	5		13.8	96	4.0	7.9	73		140		58			4,600
2-4-70	0.6	5		14.0	97	2.9	7.9	79		142		52			15,000
2-5-70	0.6	5		14.0	97	2.4	7.9	74		144		55			2,400
2-6-70	0.6	5		13.4	93	2.7	7.7	86		132		53			4,600
2-7-70	0.6	5		13.3	92	3.0	7.7	85		152		51			230
2-8-70	0.6	5				3.0	7.7	82		148		48			430
2-9-70	0.6	5		13.7	95	3.1	7.9	80		132		47			230
2-10-70	0.6	5		13.7	95	3.0	7.9	81		151		91			230
2-11-70	0.6	5		13.7	95	2.7	7.9	82		150		43			230
2-12-70	0.6	5		13.7	95	2.8	7.9	85		134		45			230
2-13-70	0.6	5		13.6	95	2.6	7.9	88		138		39			230
2-14-70	0.6	5	346	14.5	101	2.5	8.0	90	216	140	18	36	0.20	0.04	430
2-15-70	0.6	5		13.8	96	2.0	7.9	82		146		45			73
2-16-70	0.6	5		14.0	97	2.8	8.0	84		144		44			36
2-17-70	0.6	5		14.2	99	2.3	8.0	90		136		46			430
2-18-70	0.6	5		13.8	96	2.5	8.0	89		140		33			150
2-19-70	0.6	5		14.5	101	2.8	8.0	88		160		46			91
2-20-70	0.6	5		14.0	97	2.9	8.0	89		144		54			240
2-21-70	0.6	5		13.8	96	3.9	8.0	90		160	19	72	0.15	0.04	460

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
2-22-70	0.6	5				4.2	7.9	91		160		71			460
2-23-70	0.6	5				2.2	7.7	83		180		87			460
2-24-30	0.6	5		14.4	100	2.0	7.7	82		150		67			91
2-25-70	0.6	5		13.6	95	3.6	7.7	84		152		54			430
2-26-70	0.6	5		13.8	96	3.2	7.8	85		150		52			150
2-27-70	0.6	5		13.9	97	3.2	7.8	85		158		64			36
2-28-70	0.6	5	403	13.9	97	2.7	7.7	86	252	156	19	58	0.10	0.04	230
Feb. Avg.	0.6	5	375	13.9	98	3.0	7.9	84	234	147	19	55	0.15	0.04	1,321
Max.	0.6	5	403	14.5	101	4.2	8.0	91	252	180	19	91	0.20	0.04	15,000
Min.	0.6	5	346	13.3	92	2.0	7.7	72	216	130	18	33	0.10	0.04	36
3-1-70	0.6	5				3.0	7.7	87		144		49			91
3-2-70	0.6	5		14.2	99	3.5	7.8	100		152		48			930
3-3-70	0.6	5		13.9	97	3.7	7.9	93		158		35			230
3-4-70	0.6	5		13.7	95	4.2	7.8	94		142		35			200
3-5-70	0.6	5		13.7	95	3.6	7.9	93		140		21			1,500
3-6-70	0.6	5		14.0	97	3.9	7.7	95		156		34			430
3-7-70	0.6	5	352	14.0	97	3.4	7.8	93	220	158	19	32	0.10	0.04	430
3-8-70	0.6	5		14.8	103	3.3	7.9	94		140		33			430
3-9-70	0.6	5		15.3	106	3.3	7.9	90		128		31			36
3-10-70	0.6	5		15.3	106	3.0	8.0	89		130		27			430
3-11-70	0.6	5		14.6	102	3.6	8.0	86		140		40			230
3-12-70	0.6	5		14.5	101	2.5	8.0	88		146		37			230
3-13-70	0.6	5		14.8	103	2.7	8.0	88		146		44			91
3-14-70	0.6	5	93	15.4	107	2.5	8.0	88	58	142	17	45	0.15	0.04	91
3-15-70	0.6	5				2.8	7.7	89		144		43			36
3-16-70	0.6	5		14.6	102	2.7	8.0	89		144		43			36
3-17-70	0.6	5		15.0	104	1.8	8.0	87		148		43			36

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-18-70	0.6	5		15.0	104	1.1	8.1	89		142		44			91
3-19-70	0.6	5		15.2	106	1.8	8.2	88		140		45			43
3-20-70	0.6	5		15.8	110	2.3	7.9	91		160		43			43
3-21-70	0.6	5	288	14.4	100	1.7	8.0	92	180	130	15	30	0.10	0.04	4
3-22-70	0.6	5				1.6	7.9	94		136		31			23
3-23-70	0.6	5		14.1	98	1.4	8.0	90		136		35			15
3-24-70	0.6	5		14.5	101	2.1	8.0	93		140		32			460
3-25-70	0.6	5		14.7	102	2.8	7.9	90		140		28			91
3-26-70	0.6	5		14.2	99	3.5	8.0	97		146		31			36
3-27-70	1.1	250		14.4	101	3.3	7.9	90		134		32			2,100
3-28-70	2.8	140	432	14.1	104	4.2	7.8	93	272	122	20	30	1.15		
3-29-70	2.2	250				4.5	8.0	92		170		30			2,100
3-30-70	1.1	150		14.2	100	3.3	8.1	94		134		43			910
3-31-70	1.1	80		14.1	99	3.6	7.9	90		160		69			4,300
Mar. Avg.	0.8	32	291	14.5	103	2.9	7.9	91	188	143	18	38	0.38	0.04	522
Max.	2.8	250	432	15.8	110	4.5	8.2	100	272	170	20	69	1.15	0.04	4,300
Min.	0.6	5	93	13.7	95	1.1	7.7	86	58	122	15	21	0.10	0.04	4
4-1-70	1.1	40		14.1	99	3.7	7.9	90		156		57			910
4-2-70	1.1	25		14.2	100	3.1	7.9	88		154		58			910
4-3-70	2.8	230		13.2	97	5.5	7.9	92		134		31			15,000
4-4-70	3.3	230	253	13.3	100	4.2	7.9	93	158	148	24	31	1.35	2.90	4,300
4-5-70	3.3	100				5.0	8.0	94		132		32			360
4-6-70	3.3	100		13.2	99	4.2	7.9	92		130		33			910
4-7-70	3.3	100		13.4	100	4.0	7.9	93		136		33			360
4-8-70	4.4	80		13.1	101	4.0	7.9	95		132		32			2,300
4-9-70	4.4	50		12.5	96	3.7	7.9	94		134		29			910
4-10-70	4.4	30		12.7	98	3.6	7.9	93		136		29			2,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-11-70	6.1	20	362	12.8	103	3.7	7.9	93	226	132	20	29	0.75	0.04	750
4-12-70	6.1	40		12.5	100	3.8	7.8	88		138		32			430
4-13-70	6.7	30		12.4	101	3.9	7.9	90		150		42			36
4-14-70	6.1	90		12.5	100	3.2	7.9	90		138		45			430
4-15-70	4.4	20		13.3	102	2.7	7.9	90		140		39			300
4-16-70	6.1	20		13.6	109	2.8	8.0	90		150		32			36
4-17-70	6.1	15		13.0	104	2.1	8.0	90		158		54			36
4-18-70	6.1	10		15.1	121	2.8	8.2	89		144	19	48	1.00	0.04	36
4-19-70	6.1	5				3.0	7.9	92		200		37			430
4-20-70	6.1	100		13.9	112	2.5	8.2	93		152		43			93
4-21-70	6.7	80		13.7	112	2.9	8.2	92		142		38			430
4-22-70	6.7	110		13.5	110	3.2	8.2	94		140		41			91
4-23-70	6.7	80		13.5	110	4.8	8.2	93		150		46			430
4-24-70	10.0	15		13.2	116	5.1	8.2	93		14[illegible]		33			930
4-25-70	10.0	15	368	13.1	115	4.6	8.3	93	230	1[illegible]	21	27	0.25	0.08	430
4-26-70	10.0	10				4.2	8.5	10		14[illegible]		42			36
4-27-70	10.0	5		13.7	121	4.3	8.3	98		144		37			240
4-28-70	10.0	5		13.2	116	4.2	8.1	95		140		38			23
4-29-70	8.9	5		13.5	116	4.3	8.2	94		140		36			23
4-30-70	8.9	5		12.2	105	2.7	8.1	92		144		33			36
Apr. Avg.	6.0	56	328	13.3	106	3.7	8.0	89	205	144	21	38	0.84	0.77	1,117
Max.	10.0	230	368	15.1	121	5.5	8.5	98	230	200	24	58	1.35	2.90	15,000
Min.	1.1	5	253	12.2	96	2.1	7.8	10	158	130	19	27	0.25	0.04	23
5-1-70	10.6	5		13.4	119	4.1	8.3	96		122		19			1,100
5-2-70	10.6	40		11.9	106	4.6	8.3	93		152		29			210
5-3-70	12.2	20		11.0	101	4.9	8.3	95		136		16			390
5-4-70	12.2	90		11.5	106	5.0	8.4	94		140		19			430

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Palnesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-5-70	12.2	20		11.7	108	4.8	8.4	95		150		23			1,500
5-6-70	10.6	90		11.0	98	3.8	8.2	93		152		60			230
5-7-70	10.6	80		10.5	94	4.0	8.2	94		152		63			430
5-8-70	10.6	20		10.7	95	3.9	8.1	93		152	21	57	1.05	0.12	150
5-9-70	11.1	10		10.6	95	3.5	8.1	95		170		51			4,300
5-10-70	12.2	5		10.2	94	3.9	8.0	98		132		32			430
5-11-70	13.3	5		10.5	100	4.3	8.2	100		120		38			930
5-12-70	13.3	5		10.9	104	4.1	8.3	98		132		33			430
5-13-70	13.3	5		10.4	99	4.3	8.3	96		130		31			2,400
5-14-70	13.3	10		10.3	98	3.3	8.2	90		130		35			230
5-15-70	13.3	15		10.2	97	3.6	8.2	96		224		158			2,400
5-16-70	13.9	15		10.1	97	3.9	8.1	92		240		142			230
5-17-70	13.9	15		9.8	94	3.7	8.3	108		144		37			150
5-18-70	13.9	15	100			2.2	8.2	104		140		33			73
5-19-70	13.9	20		11.0	106	2.1	8.3	98		140		38			36
5-20-70	15.6	10		10.8	108	2.5	8.4	104		150		33			4,300
5-21-70	14.4	10		10.8	105	2.4	8.3	106		148		30			36
5-22-70	15.0	5		12.9	127	3.0	8.8	97		144		44			91
5-23-70	16.7	5	282	13.8	141	3.5	9.0	96	176	144	15	44	0.20	0.02	150
5-24-70	15.6	5		11.0	110	3.0	8.5	96		144		25			73
5-25-70	13.3	5		9.8	93	3.0	8.2	95		138		35			430
5-26-70	13.3	5		9.5	90	2.2	8.2	97		130		32			2,400
5-27-70	14.4	100		9.1	89	3.2	8.2	99		140		33			2,400
5-28-70	14.4	100		8.9	87	4.1	8.2	92		135		35			24,000
5-29-70	14.4	10		8.3	81	3.1	7.7	96		148		45			2,400
5-30-70	15.6	10		8.9	89	3.3	7.6	94		144		47			750
5-31-70	15.6	10		8.8	88	3.0	7.6	96		148		45			390

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
May Avg.	13.3	25	191	10.6	101	3.6	8.2	97	176	147	18	44	0.63	0.07	1,725
Max.	16.7	100	282	13.8	141	5.0	9.0	108	176	240	21	158	1.05	0.12	24,000
Min.	10.6	5	100	8.3	80	2.1	7.6	90	176	120	15	16	0.20	0.02	36
6-1-70	15.6	10				3.4	8.1	98		124		42			430
6-2-70	18.3	10				2.3	8.1	92		130		30			2,400
6-3-70	18.3	30		9.0	95	2.6	8.3	96		130		23			150
6-4-70	14.4	15		8.7	85	3.4	8.1	95		152		42			150
6-5-70	13.9	10		8.5	82	2.3	7.7	96		182		50			750
6-6-70	14.4	5	323	8.2	80	3.2	7.8	94	202	150	16	40	0.20	0.02	4,300
6-7-70	14.4	5		8.6	84	2.7	7.8	94		144		18			230
6-8-70	16.1	5		8.4	85	2.8	7.9	97		134		27			2,400
6-9-70	16.1	5		9.2	93	3.0	8.2	97		138		28			4,600
6-10-70	21.1	5		9.6	107	3.2	8.4	98		132		31			2,400
6-11-70	17.8	5		10.2	107	3.1	8.4	97		134		27			390
6-12-70	21.1	5		10.8	120	3.3	7.8	100		140		35			230
6-13-70	19.4	5		8.2	88	4.2	7.6	106		140		34			150
6-14-70	12.2	15		7.0	65	2.7	7.2	95		174		73			36
6-15-70	13.3	15		8.0	77	2.7	7.5	97		152		44			230
6-16-70	17.8	5		8.1	85	3.0	8.0	97		132		27			930
6-17-70	20.0	5		9.0	98	3.1	8.1	96		132		28			930
6-18-70	21.1	5		9.0	100	3.3	8.3	97		130		10			930
6-19-70	21.1	30		7.7	86	4.5	8.0	95		136		26			730
6-20-70	20.0	30		7.4	81	4.8	7.9	98		138		33			2,300
6-21-70	19.4	5		7.4	80	5.1	7.8	97		152	17	36	0.20	0.02	2,300
6-22-70	18.9	5		7.5	80	4.1	7.9	96		146		50			9,300
6-23-70	18.9	5		8.5	91	3.2	8.0	98		130		14			24,000
6-24-70	19.4	5		7.9	85	3.1	8.0	96		132		10			2,400
6-25-70	19.4	5		8.6	93	3.1	7.9	96		136		24			4,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-26-70	19.4	5		8.4	90	4.5	7.8	97		148		125			46,000
6-27-70	19.4	10		8.5	92	3.1	7.9	95		164		40			2,300
6-28-70	19.4	10		8.3	89	2.7	8.0	95		152		56			2,300
6-29-70	20.0	5		9.4	102	3.5	8.0	97		144		39			4,300
6-30-70	20.0	5		7.9	86	2.9	8.1	94		142		32			360
June Avg.	18.1	9	323	8.5	89	3.3	8.0	97	202	142	17	36	0.20	0.02	4,074
Max.	21.1	30	323	10.8	120	5.1	8.4	106	202	182	17	125	0.20	0.02	46,000
Min.	12.2	5	323	7.0	65	2.3	7.2	92	202	124	16	10	0.20	0.02	36
7-1-70	22.8	5		8.4	96	3.4	8.1	95		130		13			2,300
7-2-70	23.3	5		8.3	96	3.7	8.1	94		128		10			4,600
7-3-70	23.3	5		8.2	95	3.2	8.0	93		122		26			2,300
7-4-70	23.3	10		9.5	110	3.5	8.1	93		128		28			36
7-5-70	22.8	10				3.2	8.1	93		130		28			4,600
7-6-70	22.8	5		7.5	86	3.0	8.2	93		128		29			950
7-7-70	23.3	5		7.7	89	2.9	8.2	94		124		28			2,400
7-8-70	22.8	5		7.1	81	3.5	8.1	94		126		28			24,000
7-9-70	22.2	5		7.1	80	3.4	8.1	93		126		28			9,300
7-10-70	22.8	5		7.1	81	3.9	8.0	99		194		100			430
7-11-70	22.8	5		7.6	87	3.0	8.1	96		132	16	28	0.15	0.02	2,300
7-12-70	22.8	5				3.1	8.2	96		130		26			2,300
7-13-70	22.8	5		8.0	92	3.2	8.1	94		130		29			230
7-14-70	22.8	5		8.0	92	2.0	8.1	93		146		55			36
7-15-70	23.3	5		8.4	97	3.7	8.2	93		124		27			91
7-16-70	23.3	5		7.5	87	3.8	8.1	92		128		26			910
7-17-70	23.3	30		6.9	80	3.5	8.1	98		130		27			390
7-18-70	23.3	10		7.8	90	4.0	8.1	95		128	15	28	0.17	0.02	930
7-19-70	23.3	10				4.0	8.1	94		144		27			2,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Palnesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-20-70	23.3	5		7.3	84	4.0	8.0	94		136		28			2,300
7-21-70	23.3	70		9.5	110	3.7	7.8	95		130		27			4,300
7-22-70	21.7	15		8.3	93	2.3	8.0	98		130		28			2,300
7-23-70	21.7	5		8.8	99	2.7	8.1	96		130		41			4,300
7-24-70	21.7	5		8.5	95	2.7	8.1	94		146		37			1,500
7-25-70	21.7	5		10.2	115	2.4	8.2	95		122		27	0.10	0.04	430
7-26-70	22.2	5		10.0	113	2.5	8.1	96		142		31			36
7-27-70	23.3	5		14.5	167	2.7	8.6	90		132		27			430
7-28-70	23.3	5		15.1	174	2.5	8.4	87		122		27			230
7-29-70	23.9	5		15.3	178	2.4	8.4	84		120		27			230
7-30-70	24.4	5		14.2	167	2.8	8.4	85		120		26			150
7-31-70	24.4	5		13.3	156	2.8	8.4	85		118		28			230
July Avg.	23.0	9		9.3	107	3.1	8.1	93		131	15	30	0.14	0.03	2,479
Max.	24.4	70		15.3	178	4.0	8.6	99		194	16	100	0.17	0.04	24,000
Min.	21.7	5		6.9	80	2.0	7.8	84		118	15	10	0.10	0.02	36
8-1-70	24.4	5		12.9	152	3.4	8.5	87		120	13	28	0.05	0.00	230
8-2-70	24.4	5				3.3	8.4	90		119		31			230
8-3-70	24.4	5		11.8	139	3.8	8.4	96		118		28			230
8-4-70	23.9	5		9.5	111	3.9	8.3	89		170		94			430
8-5-70	23.9	5		9.0	105	3.7	8.2	90		156		67			430
8-6-70	23.3	5		9.3	107	3.5	8.2	88		148		63			230
8-7-70	23.3	5		10.0	115	3.2	8.2	92		148		57			150
8-8-70	23.3	5	299	9.2	106	3.4	8.3	92	187	140	14	56	0.05	0.04	230
8-9-70	23.3	5				3.0	7.6	91		200		105			91
8-10-70	23.3	5		8.5	98	3.0	8.0	94		156		58			230
8-11-70	22.2	5		8.2	93	2.8	7.9	95		140		37			150
8-12-70	22.8	5		9.7	111	2.9	8.0	97		152		48			230

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-13-70	24.4	5		9.8	115	2.2	8.2	90		130		41			930
8-14-70	24.4	5		10.0	118	2.1	8.3	90		128		37			1,500
8-15-70	24.4	5	355	9.0	106	2.0	8.3	88	221	126	15	38	0.05	0.02	91
8-16-70	25.8	5				2.1	8.3	91		128		45			36
8-17-70	25.0	5		7.8	93	2.1	8.3	92		132		36			930
8-18-70	25.0	5		8.0	95	2.6	8.4	92		130		38			230
8-19-70	24.0	5		7.7	90	2.3	8.3	94		172		86			4,300
8-20-70	24.4	5		7.6	89	2.4	8.3	93		132		33			230
8-21-70	23.9	5		6.3	73	2.8	8.2	94		132		34			9,300
8-22-70	23.9	5	483	7.0	82	2.5	8.1	93	302	170	10	69	0.05	0.02	390
8-23-70	23.3	5		6.3	73	2.3	8.1	94		192		98			230
8-24-70	23.3	5		7.6	88	2.4	8.3	91		162		67			430
8-25-70	23.3	5		8.0	92	2.4	8.2	91		182		69			210
8-26-70	23.3	5		8.0	92	2.3	8.4	93		158		37			91
8-27-70	23.3	5		7.6	88	2.4	8.4	95		140		32			430
8-28-70	23.3	5		7.7	89	2.2	8.5	95		140		32			230
8-29-70	23.3	5	355	7.0	81	2.2	8.3	96	222	136	17	37	0.05	0.02	430
8-30-70	23.3	5				2.6	8.1	95		158		45			150
8-31-70	23.3	10		6.8	78	2.6	8.2	94		180		73			230
Aug. Avg.	23.8	5	373	8.5	98	2.7	8.2	92	233	148	14	52	0.05	0.02	767
Max.	25.8	10	483	12.9	152	3.9	8.5	97	302	200	17	105	0.05	0.04	9,300
Min.	22.2	5	299	6.3	73	2.0	7.6	87	187	118	10	28	0.05	0.00	36
9-1-70	23.3	10		7.3	84	2.6	8.2	91		172		88			430
9-2-70	23.3	5		7.5	87	2.5	8.2	93		194		86			230
9-3-70	22.8	5		7.3	84	2.5	8.3	92		172		68			210
9-4-70	22.8	10		7.4	85	2.6	8.3	89		160		32			2,000
9-5-70	22.8	30	346	6.9	79	2.8	8.2	97	216	132	18	32	0.40	0.02	2,300

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
9-6-70	22.8	20				2.8	8.2	98		142		33			230
9-7-70	22.2	15				2.9	8.2	95		188		92			2,300
9-8-70	22.2	5		8.1	92	2.5	8.2	96		180		76			430
9-9-70	23.3	5		8.[illegible]	95	1.9	8.3	92		156		48			150
9-10-70	22.8	5		7.7	88	2.5	8.3	95		150		56			91
9-11-70	22.2	90		7.4	84	2.7	8.0	97		172		35			930
9-12-70	22.2	5	419	7.7	87	2.2	8.1	96	262	160	14	53	0.13	0.04	930
9-13-70	21.1	5				2.5	8.1	96		166		68			230
9-14-70	21.7	20		7.3	82	2.8	8.1	97		188		78			430
9-15-70	21.7	5		7.5	84	2.1	8.1	97		198		95			230
9-16-70		10		7.8		2.1	8.2	102		164		47			750
9-17-70	21.1	5		8.2	91	2.3	8.2	95		148		43			430
9-18-70	21.1	5		8.0	89	2.1	8.3	96		150		35			430
9-19-70	21.1	5	341	7.9	88	2.5	8.3	96	213	146	16	37	0.15	0.02	430
9-20-70	21.1	5				2.3	8.1	95		160		48			430
9-21-70	21.1	5		8.2	91	2.2	8.3	98		170		33			230
9-22-70	21.1	5		8.3	92	2.4	8.3	97		138		35			1,500
9-23-70	21.1	5		7.8	87	2.4	8.2	94		148		38			2,800
9-24-70	21.1	5		7.7	86	3.5	8.1	98		164		54			730
9-25-70	22.2	5		7.5	85	2.9	8.3	97		142		41			1,500
9-26-70	22.2	5	349	8.0	91	2.9	8.2	98	218	134	18	34	0.10	0.02	430
9-27-70	21.1	15				3.4	8.0	98		144		30			4,300
9-28-70	21.1	25		7.7	86	3.3	8.1	99		152		38			1,500
9-29-70	20.0	40		8.3	90	2.9	8.1	103		150		34			430
9-30-70	20.0	20		8.3	90	2.5	8.0	98		146		25			4,300
Sept. Avg.	21.8	13	364	7.7	87	2.6	8.2	96	227	159	17	40	0.20	0.03	1,044
Max.	23.3	90	419	8.3	95	3.5	8.3	103	262	198	18	95	0.40	0.04	4,300
Min.	20.0	5	341	6.9	79	1.9	8.0	89	213	132	14	25	0.10	0.02	91

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-1-70	20.0	10		8.5	93	2.4	8.0	96		156		42			
10-2-70	20.0	10		8.6	94	2.6	8.0	95		170		54			230
10-3-70	19.4	10	522	8.6	93	2.5	8.0	95	326	158	18	49	0.15	0.04	230
10-4-70	19.4	150				3.3	7.9	94		156		34			4,300
10-5-70	17.8	80		8.8	92	3.4	7.9	99		152		32			2,300
10-6-70	16.7	90		8.7	89	3.0	7.9	101		142		31			4,300
10-7-70	15.6	30		10.0	100	2.8	7.9	97		160		33			1,500
10-8-70	17.2	10		9.8	101	2.7	7.8	98		140		33			430
10-9-70	17.2	20				2.7	8.0	96		144		33			430
10-10-70	17.8	20	288	9.8	102	2.5	8.2	95	180	148		32			230
10-11-70	17.2	30				2.3	8.0	105		134		33			230
10-12-70	17.2	20				2.2	8.0	99		158		28			230
10-13-70	16.7	15		8.5	87	2.2	8.1	97		146		28			390
10-14-70	16.7	10		9.3	95	2.1	8.1	96		132		29			1,500
10-15-70	16.7	20		8.7	89	4.1	8.1			150		38			390
10-16-70	15.6	80		9.2	92	3.7	8.0	85		164		55			2,300
10-17-70	15.0	30		9.6	95	2.5	7.9	94		124		30			4,300
10-18-70	14.4	80		9.5	93	2.0	7.8	96		128		33			730
10-19-70	13.9	70		9.7	94	2.0	7.9	96		146		27			430
10-20-70	14.4	50		9.3	91	2.3	7.9	94		160		27			2,300
10-21-70	15.0	20		9.5	94	1.9	7.9	97		132		29			930
10-22-70	14.4	10		9.6	94	1.5	7.9	95		152		26			930
10-23-70	14.4	10		10.0	98	1.5	8.0	92		150		32			230
10-24-70	14.4	10	364	9.8	96	1.3	8.0	96	228	130	16	28	0.15	0.02	230
10-25-70	14.4	5		9.5	93	2.4	7.9	97		146		29			2,300
10-26-70	14.4	5		9.3	91	2.2	7.9	95		218		120			430
10-27-70	14.4	10		9.6	94	2.1	8.0	97		143		40			430
10-28-70	15.0	10		10.0	99	1.9	8.0	94		172		63			230
															230

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-29-70	15.0	5		10.3	102	2.1	8.0	96		154		55			230
10-30-70	14.4	5		10.2	100	2.1	7.9	97		150		46			430
10-31-70	15.0	5	349	9.7	96	2.1	7.9	96	218	142	15	35	0.10	0.02	230
Oct. Avg.	16.2	29	381	9.4	94	2.4	8.0	96	238	150	16	39	0.13	0.03	1,083
Max.	20.0	150	522	10.3	102	4.1	8.2	105	326	218	18	120	0.15	0.04	4,300
Min.	13.9	5	288	8.5	87	1.3	7.8	85	180	124	15	26	0.10	0.02	230
11-1-70	13.9	5				1.9	8.1	98		144		35			230
11-2-70	13.9	5		10.1	98	2.6	7.9	97		134		33			230
11-3-70	13.9	5		10.2	99	2.3	7.9	98		132		33			930
11-4-70	13.3	10		9.6	92	2.9	7.8	97		134		34			430
11-5-70	13.3	30		9.5	91	3.8	7.8	97		134		34			2,100
11-6-70	12.2	80		10.4	96	3.2	7.8	98		136		32			4,300
11-7-70	12.2	50	427	9.9	92	2.3	7.9	96	267	136	18	31	0.55	0.10	430
11-8-70	11.7	35				2.3	7.8	95		182		32			2,100
11-9-70	12.2	20		10.4	96	2.5	7.9	96		134		39			930
11-10-70	12.2	10		10.7	99	2.4	8.0	92		138		26			430
11-11-70	12.2	15		10.1	94	2.1	8.0	97		130		31			930
11-12-70	12.2	10		10.7	99	3.2	8.1	95		156		54			930
11-13-70	12.2	5		10.1	94	2.1	7.9	94		150		74			390
11-14-70	12.2	30	557	10.8	100	2.3	8.1	94	348	182	14	75	0.30	0.04	930
11-15-70	12.2	30		10.4	96	2.1	7.9	96		160		79			930
11-16-70	11.7	15		10.6	97	2.2	8.1	96		174		90			430
11-17-70	12.2	100		10.8	100	2.4	8.1	98		176		44			24,000
11-18-70	8.9	70		10.9	94	1.9	8.1	93		144		38			9,300
11-19-70	8.9	50		10.8	93	2.3	8.1	92		152		42			4,300
11-20-70	8.9	20		10.7	92	2.3	8.2	90		184		75			2,400

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
11-21-70	8.9	200		11.1	96	3.2	8.1	97		142	22	28	1.80	2.20	2,400
11-22-70	8.9	140				3.5	7.9	97		148		30			4,300
11-23-70	8.3	230		11.3	96	6.2	8.1	99		132		32			4,300
11-24-70	8.3	330		12.2	104	8.7	8.1	98		142		36			7,500
11-25-70	8.3	200		12.2	104	5.3	8.1	97		142		46			4,300
11-26-70	5.6	100		11.5	92	4.6	8.0	95		160		39			2,400
11-27-70	6.7	50		12.7	104	3.7	8.1	95		164		60			4,300
11-28-70	7.2	50	334	11.7	97	2.9	8.1	92	209	126	18	23	1.25	1.10	4,300
11-29-70	6.7	60				4.2	8.0	93		124		22			930
11-30-70	6.7	70		12.0	98	3.4	8.1	95		144		27			2,400
Nov. Avg.	10.5	68	439	10.8	96	3.2	8.0	96	275	148	18	42	0.98	0.86	3,126
Max.	13.9	330	557	12.7	104	8.7	8.2	99	348	184	22	90	1.80	2.20	24,000
Min.	5.6	5	334	9.5	91	1.9	7.8	90	209	124	14	22	0.30	0.04	230
12-1-70	6.7	80		11.7	96	2.1	8.0	90		132		27			4,300
12-2-70	7.8	90		11.4	96	2.7	8.0	88		140		28			15,000
12-3-70	7.2	30		11.1	92	2.3	8.1	89		122		24			4,300
12-4-70	7.2	140		11.3	94	4.9	8.0	93		130		28			110,000
12-5-70	7.2	90	339	12.0	99	4.0	8.0	91	212	118	18	28	1.20	1.70	24,000
12-6-70	6.7	250				4.6	8.0	93		136		28			9,300
12-7-70	5.6	250		13.1	104	4.0	8.1	95		138		30			24,000
12-8-70	5.6	140		12.7	101	4.1	8.1	95		128		30			1,500
12-9-70	5.0	150		12.7	100	3.3	7.9	94		130		30			9,300
12-10-70	5.6	120		12.1	96	3.2	8.1	95		134		28			9,300
12-11-70	5.6	130		12.2	97	2.9	8.0	93		138		28			4,300
12-12-70	5.6	160	515	12.2	97	3.0	8.1	91	322	220	21	74	1.30	1.40	4,300
12-13-70	5.6	135		12.1	96	3.0	7.9	100		220	21	93			1,500
12-14-70	5.0	170		12.8	100	4.1	8.1	91		174		29			1,500

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
12-15-70	5.0	170		12.7	100	4.1	8.0	90		150		33			21,000
12-16-70	5.0	140		12.7	100	4.3	8.1	92		140		34			46,000
12-17-70	5.0	90		12.6	99	4.5	8.0	92		138		32			9,300
12-18-70	5.0	90		12.9	101	3.4	8.1	95		140		38			9,300
12-19-70	5.0	80		12.4	97	4.1	8.0	93		154	20	30	0.80	1.00	9,300
12-20-70	5.0	70		13.1	103	4.8	7.9	95		142		31			9,300
12-21-70	4.4	100		12.8	99	3.8	8.0	92		134		28			9,300
12-22-70	4.4	60		13.0	100	3.0	8.0	91		142		32			9,300
12-23-70	3.9	80		12.9	98	4.0	8.0	90		130		31			9,300
12-24-70	3.9	90		12.4	95	4.5	8.0	93		158		34			46,000
12-25-70	3.9	115				3.6	7.9	92		122		31			24,000
12-26-70	3.3	100				3.2	7.9	92		156		28			9,300
12-27-70	3.3	200				3.1	8.0	92		144		28			4,300
12-28-70	1.7	80		14.2	102	3.6	8.0	91		132		27			4,300
12-29-70	1.7	80		14.2	102	2.6	8.0	91		132		27			9,300
12-30-70	1.7	50		14.1	102	2.4	8.0	90		136		26			1,500
12-31-70	1.7	40		14.1	102	1.6	8.0	91		150		26			1,500
Dec. Avg.	4.8	115	427	12.6	99	3.5	8.0	92	267	144	20	33	1.10	1.37	14,674
Max.	7.8	250	515	14.2	104	4.9	8.1	100	322	220	21	93	1.30	1.70	110,000
Min.	1.7	30	339	11.1	92	1.6	7.9	88	212	118	18	24	0.80	1.00	1,500

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-70	1.5	50				0.9	7.8	88		136					2,400
1-2-70	1.3	75				1.1	7.9	86		134					210
1-3-70	1.3	50				1.6	7.9	90		136					230
1-4-70	1.2	35				1.5	7.8	92		150					230
1-5-70	1.3	35				1.5	7.8	92		160					230
1-6-70	1.5	15				1.8	7.8	90		144					36
1-7-70	1.3	15				1.9	7.8	88		158					91
1-8-70	1.2	20				2.0	7.7	90		140					150
1-9-70	1.2	15				1.8	7.9	90		140					230
1-10-70	1.2	20				2.0	7.7	90		146					91
1-11-70	1.2	10				1.4	7.7	90		146					0
1-12-70	1.2	15				1.8	7.7	90		144					36
1-13-70	0.8	8				1.8	7.7	90		134					15
1-14-70	0.8	8				1.8	7.7	90		144					9
1-15-70	0.8	10				1.6	7.7	90		146					9
1-16-70	0.8	8				1.4	7.8	88		144					4
1-17-70	0.8	8				1.3	7.6	90		142					4
1-18-70	0.8	7				1.3	7.6	90		146					9
1-19-70	0.8	4				1.5	7.6	88		142					4
1-20-70	0.8	4				1.2	7.6	90		144					4
1-21-70	0.6	4				1.3	7.7	92		140					0
1-22-70	0.6	4				1.1	7.8	92		142					9
1-23-70	0.6	4				1.4	7.7	94		144					4
1-24-70	0.6	4				1.1	7.7	90		140					4
1-25-70	0.6	4				1.1	7.7	92		144					4
1-26-70	0.6	4				1.1	7.7	90		150					4
1-27-70	0.6	4				1.3	7.8	90		150					4
1-28-70	0.6	4				1.0	7.7	90		146					0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-29-70	0.6	4				1.0	7.7	90		148					0
1-30-70	0.6	4				1.1	7.8	90		148					9
1-31-70	0.6	4				1.1	7.8	90		148					43
Jan. Avg.	0.9	15				1.4	7.7	90		144					131
Max.	1.5	75				2.0	7.9	94		160					2,400
Min.	0.6	4				0.9	7.6	86		134					0
2-1-70	0.6	4				1.2	7.9	90		150					460
2-2-70	0.6	8				1.0	7.9	88		144					1,100
2-3-70	0.6	4				1.1	7.8	88		150					240
2-4-70	0.6	4				1.2	7.8	90		150					430
2-5-70	0.6	4				1.0	7.8	90		142					230
2-6-70	0.6	8				1.1	7.8	88		148					2,400
2-7-70	0.6	4				1.1	7.9	86		148					430
2-8-70	0.6	4				0.9	7.8	88		142					430
2-9-70	0.6	4				1.0	7.9	86		144					2,400
2-10-70	0.6	4				0.8	7.9	90		148					230
2-11-70	0.6	4				0.8	7.7	90		146					230
2-12-70	0.6	4				1.2	7.8	90		148					430
2-13-70	0.6	8				0.9	7.9	90		144					930
2-14-70	0.6	4				0.9	7.8	88		146					230
2-15-70	0.6	4				0.9	7.8	90		148					91
2-16-70	0.6	4				0.9	7.9	90		150					150
2-17-70	0.6	4				0.8	7.9	88		148					230
2-18-70	0.6	4				0.9	7.9	86		150					150
2-19-70	0.6	4				0.9	8.0	90		148					230
2-20-70	0.6	4				0.7	7.9	88		142					430
2-21-70	0.6	4				0.9	8.0	88		144					73

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
2-22-70	0.6	4				1.0	8.1	86		146					36
2-23-70	0.6	4				1.0	8.1	86		140					36
2-24-70	0.6	4				1.1	8.1	86		140					36
2-25-70	0.6	4				1.1	7.9	84		140					36
2-26-70	0.6	4				1.1	7.9	86		140					0
2-27-70	0.6	4				1.1	7.9	86		140					91
2-28-70	0.6	10				1.1	8.0	84		138					36
Feb. Avg.	0.6	5				1.0	7.9	88		145					421
Max.	0.6	10				1.2	8.1	90		150					2,400
Min.	0.6	4				0.7	7.7	84		138					0
3-1-70	0.8	8				1.1	8.1	86		140					91
3-2-70	0.8	8				1.1	8.1	86		140					91
3-3-70	0.8	8				1.1	8.1	86		140					230
3-4-70	0.6	4				1.1	8.1	86		144					0
3-5-70	0.8	4				1.2	8.1	86		140					36
3-6-70	0.8	8				1.1	8.1	88		144					91
3-7-70	0.8	8				1.1	8.1	78		138					36
3-8-70	0.8	8				0.9	8.1	82		142					0
3-9-70	0.8	8				1.2	8.3	84		142					0
3-10-70	0.8	8				0.7	8.1	82		138					0
3-11-70	0.8	8				1.1	8.2	84		140					0
3-12-70	1.0	8				1.0	8.3	86		136					0
3-13-70	0.8	8				1.1	8.1	90		140					0
3-14-70	0.8	8				1.0	8.1	84		140					0
3-15-70	0.8	8				0.9	8.2	86		140					0
3-16-70	0.8	8				1.2	8.1	82		144					0
3-17-70	0.8	8				0.9	8.0	78		142					0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
3-18-70	0.8	8				1.2	8.1	84		140					0
3-19-70	0.8	8				1.0	7.9	82		136					0
3-20-70	0.8	4				1.1	8.0	80		148					9
3-21-70	0.8	8				1.2	8.1	86		146					0
3-22-70	0.8	8				1.1	8.1	84		146					0
3-23-70	1.0	8				1.5	8.0	86		156					7
3-24-70	1.0	4				1.6	7.9	86		150					9
3-25-70	1.0	8				1.5	7.9	84		150					43
3-26-70	1.0	4				1.4	7.9	84		150					43
3-27-70	1.0	110				2.0	7.8	82		162					430
3-28-70	1.2	90				2.7	7.8	86		148					4,600
3-29-70	1.0	90				1.3	7.9	84		144					430
3-30-70	1.0	50				2.1	7.8	82		150					230
3-31-70	1.0	40				1.9	7.9	82		146					230
Mar. Avg.	0.9	18				1.3	8.0	84		144					213
Max.	1.2	110				2.7	8.3	90		162					4,600
Min.	0.6	4				0.7	7.8	78		136					0
4-1-70	1.5	40				1.9	7.9	88		148					230
4-2-70	1.2	25				2.1	7.9	86		140					91
4-3-70	1.8	170				2.9	7.8	88		166					4,600
4-4-70	2.5	130				2.4	7.7	82		136					2,400
4-5-70	2.5	130				2.4	7.7	82		136					11,000
4-6-70	3.2	95				2.9	7.8	80		148					4,600
4-7-70	3.5	140				2.7	7.7	84		144					4,600
4-8-70	3.5	80				2.7	7.7	82		136					2,400
4-9-70	4.5	100				2.9	7.7	82		136					930
4-10-70	5.2	110				2.8	7.7	86		134					930

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-11-70	5.0	100				2.8	7.6	84		138					2,400
4-12-70	5.0	55				2.4	7.7	88		138					430
4-13-70	5.3	85				2.3	7.7	88		134					430
4-14-70	5.0	60				2.0	7.7	84		134					91
4-15-70	5.0	50				2.1	7.8	92		130					91
4-16-70	5.4	50				1.9	7.9	88		130					36
4-17-70	5.2	40				1.9	7.9	88		128					0
4-18-70	6.0	45				1.6	7.9	92		130					91
4-19-70	6.5	70				1.5	7.9	96		132					91
4-20-70	6.5	75				1.7	8.0	94		132					36
4-21-70	6.7	85				1.7	7.9	98		134					91
4-22-70	7.0	45				1.7	8.0	102							2,400
4-23-70	8.0	45				1.8	8.1	100		146					91
4-24-70	8.3	35				1.7	8.0	102		140					36
4-25-70	8.6	35				1.7	8.1	100		138					73
4-26-70	9.0	20				2.0	8.0	102		138					36
4-27-70	8.8	15				2.2	8.0	104		138					230
4-28-70	8.5	10				2.2	7.9	102		136					230
4-29-70	8.0	10				2.2	7.7	102		146					36
4-30-70	7.2	10				1.5	7.7	104		132					36
Apr. Avg.	5.5	65				2.2	7.8	92		138					1,291
Max.	9.0	170				2.9	8.1	104		166					11.000
Min.	1.2	10				1.5	7.6	80		128					0
5-1-70	8.8	8				1.8	7.7	108		136					0
5-2-70	10.0	25				2.1	7.8	108		130					36
5-3-70	10.6	30				2.7	8.0	106		182					23

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
5-4-70	11.0	25				2.4	7.9	104		144					93
5-5-70	11.5	20				3.0	7.9	106		146					230
5-6-70	11.0	95				3.1	7.8	112		150					150
5-7-70	10.5	55				2.6	7.8	108		140					36
5-8-70	10.4	40				2.3	7.8	104		140					230
5-9-70	11.0	45				2.3	7.7	106		142					91
5-10-70	13.0	40				2.4	7.7	108		146					91
5-11-70	13.0	20				1.8	7.9	96		146					91
5-12-70	12.5	20				1.8	7.8	102		142					36
5-13-70	12.0	15				1.8	7.8	124		134					91
5-14-70	13.3	30				1.8	7.9	108		138					36
5-15-70	11.0	15				1.3	7.9	108		136					36
5-16-70	12.4	8				1.4	7.8	110		132					91
5-17-70	13.2	25				1.9	7.9	106		140					91
5-18-70	13.5	10				2.1	7.9	114		17					91
5-19-70	14.5	20				1.7	8.1	114		164					36
5-20-70	15.0	30				1.3	8.1	114		146					36
5-21-70	13.5	10				1.5	8.2	110		136					36
5-22-70	13.5	20				1.2	8.1	118		138					36
5-23-70	15.5	10				1.5	8.3	114		140					91
5-24-70	11.5	8				1.5	7.8	116		138					36
5-25-70	10.5	10				1.4	7.5	110		132					0
5-26-70	12.0	35				1.4	7.7	116		130					36
5-27-70	13.5	45				1.4	8.0	118		144					91
5-28-70	14.5	30				1.7	8.0	112		162					4,600
5-29-70	14.5	70				1.8	7.9	98		142					230
5-30-70	11.0	20				1.3	7.5	96		134					0
5-31-70	15.0	15				1.3	7.9	96		138					930

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
May Avg.	12.4	27				1.9	7.9	109		143					248
Max.	15.5	95				3.1	8.3	124		174					4,600
Min.	8.8	8				1.2	7.5	96		130					0
6-1-70	16.0	16				1.5	7.9	100		134					430
6-2-70	17.4	20				1.6	8.1	96		138					430
6-3-70	17.8	40				1.7	8.1	94		134					91
6-4-70	15.0	25				2.1	7.8	90		138					230
6-5-70	10.5	8				1.7	7.3	92		132					230
6-6-70	10.0	10				1.3	7.3	88		134					230
6-7-70	9.0	8				1.3	7.3	88		134					91
6-8-70	15.0	8				1.1	7.6	90		134					91
6-9-70	16.5	8				1.2	7.9	90		134					91
6-10-70	17.5	40				1.4	8.1	94		136					230
6-11-70	17.5	35				1.4	8.1	94		138					36
6-12-70	20.4	10				1.7	8.3	90		134					36
6-13-70	17.5	40				1.8	7.7	90		150					930
6-14-70	9.4	30				1.7	7.5	94		136					150
6-15-70	9.8	15				1.4	7.5	92		134					36
6-16-70	11.3	10				1.5	7.4	96		136					91
6-17-70	17.0	20				1.2	8.0	92		132					36
6-18-70	18.0	20				1.7	8.1	92		132					150
6-19-70	19.7	50				1.9	8.1	90		136					150
6-20-70	19.5	35				1.9	7.9	96		146					230
6-21-70	19.0	25				2.0	7.9	94		136					230
6-22-70	18.0	15				1.9	7.9	96		136					36
6-23-70	19.0	20				1.7	7.9	96		134					230
6-24-70	20.0	25				2.0	7.8	98		138					73

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-25-70	20.5	45				2.1	7.8	96		138					9
6-26-70	19.5	25				2.2	8.0	92		132					91
6-27-70	19.0	80				1.9	7.9	94		130					930
6-28-70	19.5	45				1.7	7.9	92		134					230
6-29-70	19.5	30				1.8	7.9	90		132					230
6-30-70	20.2	45				1.8	7.9	94		132					36
June Avg.	16.6	26				1.7	7.8	93		135					206
Max.	20.5	80				2.2	8.3	100		150					930
Min.	9.0	8				1.1	7.3	88		130					36
7-2-70	21.8	20				1.9	8.1	92		132					150
7-3-70	21.5	10				1.5	8.0	94		128					73
7-4-70	22.5	35				1.7	8.1	92		130					430
7-5-70	22.0	75				2.0	8.1	92		136					430
7-6-70	22.0	30				1.5	7.9	90		138					150
7-7-70	22.2	20				1.9	8.1	90		142					150
7-8-70	22.5	40				1.9	8.0	90		142					91
7-9-70	22.0	30				1.9	7.9	90		134					73
7-10-70	21.0	25				2.0	7.9	90		130					230
7-11-70	22.0	15				1.7	8.0	90		132					36
7-12-70	22.0	10				1.5	8.1	90		132					0
7-13-70	21.8	15				1.8	7.9	90		134					0
7-14-70	21.5	10				1.1	7.9	90		130					0
7-15-70	22.3	20				1.7	8.1	90		136					91
7-16-70	22.5	75				2.1	8.0	90		144					73
7-17-70	22.5	65				1.7	8.0	96		158					230
7-18-70	23.0	15				1.9	8.1	90		136					150

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-19-70	22.5					1.8	8.1	90		132					91
7-20-70	23.0	30				1.6	8.1	90		134					230
7-21-70	21.8	90				1.9	7.9	90		134					36
7-22-70	22.0	30				1.2	7.9	90		136					150
7-23-70	21.8	10				2.9	7.9	96		130					36
7-24-70	21.5	10				1.6	8.1	90		134					140
7-25-70	22.0	20				1.4	8.3	90		136					230
7-26-70	22.2	15				1.6	8.1	90		136					0
7-27-70	22.5	20				1.4	8.0	90		134					0
7-28-70	23.0	10				1.8	8.1	90		138					36
7-29-70	24.3	10				1.7	8.3	92		134					91
7-30-70	24.3	10				1.7	8.3	94		134					91
7-31-70	24.8	8				1.6	8.3	90		128					91
July Avg.	22.4	26				1.7	8.1	91		135					119
Max.	24.8	90				2.9	8.3	96		158					430
Min.	21.0	8				1.1	7.9	90		128					0
8-1-70	25.0	10				1.8	8.3	90		134					73
8-2-70	25.3	10				1.9	8.3	88		132					230
8-3-70	25.3	40				1.8	8.3	86		126					150
8-4-70	24.5	55				1.9	8.3	86		128					750
8-5-70	24.0	45				2.1	8.3	92		124					430
8-6-70	24.0	20				2.1	8.1	96		130					91
8-7-70	23.8	8				2.0	8.0	94		130					36
8-8-70	23.5	8				2.0	8.1	92		134					91
8-9-70	21.0	10				2.5	7.4	94		136					91
8-10-70	20.0	20				2.7	7.3	96		134					0

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-11-70	20.0	20				2.6	7.3	98		128					36
8-12-70	20.5	15				1.8	7.3	94		130					390
8-13-70	21.5	8				1.4	7.5	94		132					150
8-14-70	24.0	8				1.6	8.1	90		130					36
8-15-70	24.5	8				1.5	8.3	94		126					36
8-16-70	25.0	8				1.5	8.3	94		130					91
8-17-80	25.0	25				1.6	8.1	94		132					36
8-18-70	25.0	8				1.4	8.3	92		134					91
8-19-70	25.0	8				1.5	8.1	94		132					230
8-20-70	25.0	8				1.5	8.3	92		130					150
8-21-70	25.0	40				1.6	8.1	92		130					91
8-22-70	24.8	8				1.5	8.1	92		130					150
8-23-70	23.8	10				1.5	8.3	92		130					930
8-24-70	23.8	8				1.3	8.3	92		134					430
8-25-70	23.7	8				1.2	8.3	94		130					91
8-26-70	23.5	8				1.2	8.3	92		134					230
8-27-70	24.0	8				1.3	8.3	92		130					230
8-28-70	24.2	8				1.3	8.3	92		134					430
8-29-70	24.5	8				1.3	8.3	96		138					430
8-30-70	23.8	8				1.4	8.2	94		136					230
8-31-70	23.5	30				1.5	8.2	92		136					91
Aug. Avg.	23.7	16				1.7	8.1	93		131					217
Max.	25.3	55				2.7	8.3	98		138					930
Min.	20.0	8				1.2	7.3	86		124					36
9-1-70	23.0	15				1.4	8.2	94		138					91
9-2-70	23.0	8				1.3	8.1	94		136					150
9-3-70	22.8	8				1.3	8.3	94		132					230

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
9-4-70	22.5	75				1.3	8.3	94		132					91
9-5-70	23.0	40				1.6	8.1	94		186					36
9-6-70	22.8	20				1.7	8.2	92		164					150
9-7-70	22.8	30				1.3	8.1	92		158					230
9-8-70	22.2	15				1.3	8.2	94		158					91
9-9-70	22.5	10				1.5	8.2	92		150					230
9-10-70	22.5					1.4	8.1	92		142					430
9-11-70	22.0	100				1.5	8.0	92		134					91
9-12-70	22.0	15				1.5	8.1	94		138					230
9-13-70	21.8	15				1.3	8.1	94		140					36
9-14-70	20.2	60				1.5	8.1	92		134					1,500
9-15-70	20.0	30				1.5	8.1	96		140					230
9-16-70	21.5	20				1.3	8.1	94		136					230
9-17-70	21.3	15				1.4	8.0	96		132					91
9-18-70	21.3	10				1.3	7.8	96		136					230
9-19-70	21.0	10				1.4	8.1	92		138					91
9-20-70	21.0	10				1.5	7.9	92		136					0
9-21-70	21.0	10				1.4	7.8	94		138					36
9-22-70	22.0	10				1.2	8.0	94		140					230
9-23-70	22.5	10				1.3	7.9	94		148					91
9-24-70	22.0	10				1.5	8.0	94		150					150
9-25-70	22.5	10				1.9	8.0	96		148					91
9-26-70	22.5	10				1.4	8.2	92		146					73
9-27-70	22.0	25				1.4	8.1	92		150					150
9-28-70	21.0	25				1.8	8.0	98		152					91
9-29-70	20.0	65				1.6	8.0	96		150					91
9-30-70	19.0	40				2.0	7.9	92		176					110

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
Sept. Avg.	21.7	24				1.5	8.1	94		145					
Max.	23.0	100				2.0	8.3	98		186					186
Min.	19.0	8				1.2	7.8	92		132					1,500
															0
10-1-70	19.5	25				1.6	8.0	94		148					
10-2-70	19.0	16				1.5	8.0	96		142					91
10-3-70	18.6	25				1.9	8.1	94		150					91
10-4-70	17.5	100				2.0	7.7	96		156					91
10-5-70	16.0	120				1.8	7.8	94		146					2,400
10-6-70	16.5	65				1.5	7.9	94		138					1,500
10-7-70	17.0	30				1.5	7.9	94		138					430
10-8-70	17.0	20				1.2		94		134					230
10-9-70	17.4	20				1.3	8.1	94		130					36
10-10-70	17.5	35				1.3	8.0	92		134					230
10-11-70	17.5	40				1.4	7.9	92		136					230
10-12-70	17.0	25				1.3	7.9	94		128					230
10-13-70	16.8	20				1.4	7.8	92		136					1,500
10-14-70	17.0	15				1.2	7.9	92		132					930
10-15-70	17.0	65				1.5	8.1	92		136					36
10-16-70	15.8	50				1.3	8.0	94		138					230
10-17-70	15.6	55				1.5	8.0	90		140					430
10-18-70	15.0	95				1.4	8.0	92		140					150
10-19-70	15.0	50				1.4	8.1	92		140					230
10-20-70	15.5	20				1.1	8.1	90		132					750
10-21-70	15.0	20				1.1	8.1	94		132					91
10-22-70	15.0	20				1.4	7.9	92		136					36
10-23-70	15.0	20				0.9	7.9	92		128					73
10-24-70	15.0	10				1.1	7.9	90		132					150
															430

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-25-70	15.0	10				0.9	8.1	90		130					230
10-26-70	15.0	20				1.0	8.1	92		132					930
10-27-70	15.0	20				1.0	8.1	92		132					91
10-28-70	14.8	10				1.0	8.1	92		136					230
10-29-70	14.5	10				1.0	8.1	92		134					91
10-30-70	14.2	10				0.7	8.1	94		136					36
10-31-70	14.0	8				0.8	7.9	90		134					230
Oct. Avg.	16.2	33				1.3	8.0	93		137					401
Max.	19.5	120				2.0	8.1	96		156					2,400
Min.	14.0	8				0.7	7.7	90		128					36
11-1-70	14.0	20				1.0	8.1	90		132					230
11-2-70	14.5	10				1.0	8.1	90		130					91
11-3-70	14.0	25				0.9	8.1	94		130					91
11-4-70	13.5	20				0.9	8.1	90		126					230
11-5-70	13.0	55				1.5	7.9	92		138					430
11-6-70	12.5	75				1.5	7.9	94		146					210
11-7-70	11.2	60				1.6	7.9	90		140					430
11-8-70	12.0	45				1.5	7.9	92		140					91
11-9-70	12.0	20				1.1	8.0	92		142					150
11-10-70	11.8	25				1.5	7.9	90		142					36
11-11-70	12.0	25				1.4	7.9	90		134					230
11-12-70	12.0	20				1.1	7.9	92		132					91
11-13-70	12.0	45				1.2	7.9	92		138					930
11-14-70	12.0	45				1.3	7.9	92		138					2,400
11-15-70	11.0	55				1.1	7.9	92		140					2,400
11-16-70	10.3	65				1.3	7.9	92		134					2,400

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - 03001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
11-17-70	9.5	75				1.2	7.9	92		138					1,500
11-18-70	9.5	55				1.1	7.9	90		140					930
11-19-70	9.5	40				1.2	7.9	90		134					930
11-20-70	9.6	25				1.0	7.9	90		134					430
11-21-70	9.3	115				1.5	7.9	90		144					2,400
11-22-70	9.0	90				1.7	7.8	90		146					2,400
11-23-70	8.5	135				2.3	7.7	90		140					930
11-24-70	6.5	210				3.5	7.7	92		136					4,600
11-25-70	6.0	195				3.9	7.7	90		136					2,400
11-26-70	6.0	105				1.6	7.7	88		134					930
11-27-70	5.8	100				2.0	7.8	88		128					2,400
11-28-70	6.3	135				1.9	7.7	88		134					2,400
11-29-70	5.3	75				1.3	7.7	86		132					930
11-30-70	6.5	90				1.7	7.7	88		128					930
Nov. Avg.	10.2	69				1.5	7.9	91		136					1.152
Max.	14.5	210				3.9	8.1	94		146					4,600
Min.	5.8	10				0.9	7,7	86		126					36
12-1-70	6.5	65				1.6	7.7	86		128					930
12-2-70	7.0	85				2.1	7.8	88		132					750
12-3-70	7.0	50				2.1	7.7	88		144					4,600
12-4-70	7.2	155				1.6	7.8	84		128					2,400
12-5-70	6.8	110				2.3	7.8	86		126					2,400
12-6-70	6.2	155				2.9	7.8	86		128					4,600
12-7-70	5.5	180				3.7	7.8	90		130					4,600
12-8-70	4.6	120				3.4	7.8	88		132					4,600
12-9-70	4.5	115				3.5	7.7	88		132					4,600
12-10-70	5.0	125				2.2	7.8	86		138					2,400

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
12-11-70	5.0	105				2.1	7.7	84		128					
12-12-70	4.8	130				2.7	7.8	90		136					4
12-13-70	4.5	90				2.4	7.8	88		126					2,400
12-14-70	4.3	185				2.4	7.8	86		154					2,400
12-15-70	4.2	140				2.7	7.8	86		138					1.500
12-16-70	4.0	75				2.0	7.8	90		136					11,000
12-17-70	4.0	65				2.4	7.8	90		132					930
12-18-70	4.0	90				1.4	7.7	92		130					4,600
12-19-70	4.0	85				1.7	7.8	88		130					2,400
12-20-70	4.0	90				2.3	7.8	88		132					1,500
12-21-70	4.0	70				2.2	7.8	90		142					24,000
12-22-70	3.5	115				2.0	7.8	90		140					4,600
12-23-70	3.3	95				2.4	7.7	90		136					4,300
12-24-70	3.0	90				2.6	7.7	86		132					4,300
12-25-70	3.0	95				2.3	7.8	90		158					7,500
12-26-70	2.5	100				1.7	7.8	88		150					4,300
12-27-70	2.0	85				1.6	7.8	90		140					4,300
12-28-70	1.5	100				1.7	7.7	90		134					2,300
12-29-70	1.2	95				1.7	7.8	90		132					4,300
12-30-70	1.0	95				1.8	7.8	90		132					
12-31-70	1.0	55				1.6	7.7	88		130					
Dec. Avg.	4.2	104				2.2	7.8	88		135					4.248
Max.	7.2	185				3.7	7.8	92		158					24,000
Min.	1.0	50				1.4	7.7	84		126					430

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-70	1.1	50		13.0	92	1.1	7.9	94		134					205
1-2-70	1.1	65		12.8	90	0.8	7.9	92		134					203
1-3-70	1.1	60		13.2	93	0.8	7.9	90		132					208
1-4-70	1.1	40		13.4	94	0.9	7.9	92		134					136
1-5-70	0.6	30		13.6	95	0.7	7.9	96		130					56
1-6-70	0.6	15	223	13.6	95	0.7	7.9	96	183	132	18	24	0.02	0.0	32
1-7-70	0.6	10		13.8	96	0.7	7.9	95		135					60
1-8-70	0.6	10		13.6	95	0.7	8.0	93		132					180
1-9-70	0.6	10		13.8	96	0.7	7.9	95		132					320
1-10-70	0.6	10		14.0	97	0.6	7.9	94		136					44
1-11-70	0.6	10		14.0	97	0.6	7.9	95		132					21
1-12-70	0.6	6		13.6	95	0.5	7.9	98		136					38
1-13-70	0.6	5	212	13.8	96	0.5	7.9	98	174	136	16	22	0.02	0.0	57
1-14-70	0.6	5		13.8	96	0.5	7.9	99		138					38
1-15-70	0.6	4		13.6	95	0.5	8.0	96		140					21
1-16-70	0.6	5		13.6	95	0.5	8.0	98		142					9
1-17-70	0.6	4		13.6	95	0.5	7.9	97		138					14
1-18-70	0.6	5		13.4	93	0.5	7.9	96		136					27
1-19-70	0.6	3	208	13.6	95	0.5	7.9	98	171	152	21	26	0.10	0.0	16
1-20-70	0.6	4		13.8	96	0.5	7.9	97		148					15
1-21-70	0.6	4		13.6	95	0.5	7.9	98		144					18
1-22-70	0.6	4		13.6	95	0.5	7.9	98		146					6
1-23-70	0.6	4		13.6	95	0.5	7.9	98		144					2
1-24-70	0.6	4		13.6	95	0.5	7.9	98		140					2
1-25-70	0.6	4		13.8	96	0.6	7.9	95		146					3
1-26-70	0.6	4		13.8	111	0.5	7.9	96		148					2
1-27-70	0.6	4		14.0	97	0.5	7.9	98		144					4
1-28-70	0.6	3	210	13.8	96	0.5	7.9	95	172	146	19	30	0.02	0.0	1

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-29-70	0.6	3		14.0	97	0.5	7.9	94		142					0
1-30-70	0.6	3		13.8	96	0.5	7.9	95		140					1
1-31-70	0.6	3		13.8	96	0.6	7.9	98		140					2
Jan. Avg.	0.7	13	213	13.6	96	0.6	7.9	96	175	139	19	26	0.04	0.00	59
Max.	1.1	65	223	14.0	111	1.1	8.0	99	183	152	21	30	0.10	0.00	320
Min.	0.6	3	208	12.8	90	0.5	7.9	90	171	130	16	22	0.02	0.00	0
2-1-70	0.6	4		13.6	95	0.5	7.9	92		136					7
2-2-70	0.6	4		13.8	96	0.6	7.9	94		144					2
2-3-70	0.6	5		13.8	95	0.6	7.9	95		142					0
2-4-70	0.6	3	212	13.6	95	0.6	7.9	96	174	140	17	25	0.04	0.0	5
2-5-70	0.6	5		13.8	96	0.6	7.9	94		144					38
2-6-70	0.6	4		13.6	95	0.6	7.9	92		138					93
2-7-70	0.6	4		13.2	92	0.6	7.8	89		132					119
2-8-70	0.6	5		13.0	90	0.5	7.7	87		134					110
2-9-70	0.6	5		13.0	90	0.5	7.7	86		132			--		27
2-10-70	0.6	4		13.2	92	0.5	7.7	87		132					22
2-11-70	0.6	4	214	13.2	92	0.5	7.7	88	176	132	15	24	0.06	0.0	20
2-12-70	0.6	5		13.2	92	0.5	7.7	87		132					14
2-13-70	0.6	4		13.0	90	0.5	7.7	86		130					57
2-14-70	0.6	4		13.0	90	0.5	7.7	86		134					71
2-15-70	0.6	4		13.2	92	0.5	7.7	88		132					34
2-16-70	0.6	5				0.5	7.8	87		134					44
2-17-70	0.6	5		13.4	93	0.5	7.8	85		136					47
2-18-70	0.6	5	191	13.6	95	0.5	7.8	86	157	138	20	30	0.02	0.0	15
2-19-70	0.6	4		13.0	90	0.5	7.8	87		136					19
2-20-70	0.6	4		12.8	89	0.5	7.8	86		136					57
2-21-70	0.6	4		13.0	90	0.5	7.7	86		132					45

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Colif.
2-22-70	0.6	3		13.0	90	0.5	7.8	88		128					11
2-23-70	0.6	3		13.2	92	0.5	7.8	89		130					9
2-24-70	0.6	3		13.4	93	0.5	7.9	90		132					16
2-25-70	0.6	3		13.0	90	0.5	7.9	91		130					6
2-26-70	0.6	3	178	13.2	92	0.5	7.9	91	146	132	19	28	0.02	0.0	2
2-27-70	0.6	3		13.2	92	0.5	7.9	92		132					37
2-28-70	0.6	3		13.2	92	0.5	7.9	92		132					14
Feb. Avg.	0.6	4	199	13.3	94	0.5	7.8	89	160	134	18	27	0.04	0.00	33
Max.	0.6	5	214	13.8	97	0.6	7.9	96	176	144	20	30	0.06	0.00	119
Min.	0.6	3	178	12.8	90	0.5	7.7	85	146	128	15	24	0.02	0.00	0
3-1-70	0.6	3		13.6	95	0.4	7.9	91		130					14
3-2-70	0.6	4		13.8	96	0.4	7.9	92		132					9
3-3-70	0.6	5		13.6	95	0.4	7.9	90		134					18
3-4-70	0.6	6		13.4	93	0.4	7.9	89	193	134					26
3-5-70	0.6	5	212	13.2	92	0.4	7.9	90	174	136	18	28	0.06	0.0	22
3-6-70	0.6	4		13.4	93	0.4	7.9	90		136					8
3-7-70	0.6			13.6	95	0.4	7.9	88		132					3
3-8-70	0.6	4		13.2	92	0.4	7.9	90		136					58
3-9-70	0.6	5		13.4	93	0.4	7.9	92		136					22
3-10-70	0.6	5		13.6	95	0.4	7.9	91		136					4
3-11-70	0.6	4	201	13.8	96	0.5	7.9	88	165	132	20	33	0.10	0.0	23
3-12-70	0.6	4		13.8	96	0.4	7.9	89		130					8
3-13-70	0.6	4		14.2	99	0.4	8.1	86		130					1
3-14-70	0.6	4		14.4	100	0.4	8.3	84		124					2
3-15-70	0.6	4	195	14.4	115	0.4	8.3	85	160	124	22	33	0.18	0.0	3
3-16-70	0.6	5		14.4	100	0.4	8.3	86		128					14
3-17-70	0.6			14.0	97	0.4	8.2	88		130					114

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
3-18-70	0.6	6		13.8	96	0.4	8.1	87		130					9
3-19-70	0.6	4		14.2	99	0.4	8.1	87		130					2
3-20-70	0.6	5		14.0	97	0.4	8.1	88		132					56
3-21-70	0.6	6		14.0	97	0.4	8.3	91		132					1
3-22-70	0.6	4		14.0	97	0.4	8.0	90		140					0
3-23-70	0.6	3		13.8	96	0.4	8.1	90		144					1
3-24-70	0.6	3	187	13.8	96	0.4	8.0	91	153	142	19	41	0.08	0.0	4
3-25-70	0.6	7	176	13.6	95	0.4	8.0	92	144	152	25	40	0.01	0.0	4
3-26-70	0.6	4		13.0	90	0.5	8.0	90		148					17
3-27-70	0.6	7		12.8	89	0.5	8.0	90		144					84
3-28-70	0.6	15		13.8	96	0.5	7.9	88		140					70
3-29-70	0.6	20		13.2	92	0.5	7.9	88		142					32
3-30-70	0.6	20		13.0	90	0.5	7.9	89		144					8
3-31-70	0.6	15	212	13.0	90	0.5	7.9	90	174	146	19	32	0.06	0.0	8
Mar. Avg.	0.6	6	197	13.7	97	0.4	8.0	89	166	136	21	35	0.08	0.0	20
Max.	0.6	20	212	14.4	115	0.5	8.3	92	193	152	25	41	0.18	0.0	114
Min.	0.6	3	176	12.8	90	0.4	7.9	84	144	124	18	28	0.01	0.0	0
4-1-70	0.6	10	223	12.4	86	0.4	7.9	87	183	142	19	33	0.20	0.0	26
4-2-70	0.6	50		12.2	85	0.5	7.9	88		148					43
4-3-70	0.6	250		12.6	88	0.6	7.9	90		146					550
4-4-70	2.2	270		12.6	91	0.6	7.9	88		152					750
4-5-70	3.3	130		12.2	91	0.6	7.9	92		140					980
4-6-70	3.3	160		12.4	93	0.6	7.9	90		144					850
4-7-70	3.9	230	254	12.0	91	0.6	7.9	92	209	152	23	35	0.18	0.0	1,900
4-8-70	3.9	180		12.0	91	0.6	7.9	89		148					445
4-9-70	3.9	170		11.8	90	0.6	7.9	90		154					660

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-10-7[illegible]	3.9	200		11.8	90	0.6	7.9	90		160					345
4-11-70	4.4	75		12.2	94	0.6	7.9	92		132					435
4-12-70	4.4	35	254	12.2	94	0.5	7.9	93	209	138	22	27	0.18	0.0	220
4-13-70	5.6	20		12.0	95		7.9	90		130					50
4-14-70	5.6	15		11.8	94	0.5	7.9	90		132					11
4-15-70	5.6	20		11.6	92	0.5	7.9	91		134					27
4-16-70	5.6	15		12.0	95	0.5	7.9	90		132					6
4-17-70	5.0	15		12.2	95	0.5	7.9	90		134					8
4-18-70	5.6	15		12.2	97	0.5	7.9	92		136					2
4-19-70	5.6	15		12.0	95	0.5	7.9			130					36
4-20-70	5.6	12	212	11.4	90	0.5	7.9	91	174	132	17	28	0.06	0.0	15
4-21-70	6.1	20		12.2	98	0.5	8.0	90		128					22
4-22-70	6.1	25		11.8	95	0.5	8.0	92		134					22
4-23-70	7.2	29		11.8	97	0.5	8.0	90		130					15
4-24-70	7.2	26		12.0	99	0.5	8.0	91		13[illegible]					19
4-25-70	7.8	10		11.8	99	0.5	8.0	93		12[illegible]					4
4-26-70	7.8	8		11.8	99	0.5	8.1	95		128					16
4-27-70	8.3	10		11.6	98	0.5	8.0	92		130					12
4-28-70	8.9	7	233	11.8	101	0.5	8.0	90	191	130	20	26	0.10	0.0	27
4-29-70	8.3	6		11.6	98	0.5	8.0	89		134					48
4-30-70	7.8	6		11.8	99	0.5	8.0	89		136					3
Apr. Avg.	5.4	64	235	12.0	94	0.7	7.9	91	193	138	20	30	0.14	0.0	252
Max.	8.9	270	254	12.6	101	5.0	8.1	95	209	160	23	35	0.20	0.0	1,900
Min.	0.6	6	212	11.4	86	0.4	7.9	87	174	128	17	26	0.06	0.0	2
5-1-70	7.8	6		11.4	95	0.4	8.0	90		138					3
5-2-70	8.3	7	254	11.0	93	0.4	7.9	92	209	128	16	26	0.10	0.0	6
5-3-70	9.4	4		11.2	97	0.5	7.4	92		132					2

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-4-70	9.4	10		10.8	94	0.5	7.9	90		138					12
5-5-70	9.4	8		10.8	94	0.4	7.9	91		136					22
5-6-70	9.4	45		11.0	95	0.5	7.9	94		142					66
5-7-70	9.4	30		10.6	92	0.5	7.9	95		144					116
5-8-70	9.4	30	297	10.6	92	0.5	7.9	93	244	152	23	38	0.16	0.0	20
5-9-70	10.6	6		10.4	93	0.5	7.9	94		136					20
5-10-70	12.2	10		10.6	98	0.5	7.9	94		136					14
5-11-70	12.8	20		10.4	98	0.5	8.0	93		142					11
5-12-70	12.8	15		10.2	96	0.5	8.0	92		144					24
5-13-70	13.3	20		10.0	95	0.5	8.0	95		140					47
5-14-70	13.3	20		10.2	97	0.5	8.0	95		140					88
5-15-70	13.3	15		10.2	97	0.6	8.0	94		136					8
5-16-70	13.3	10		10.4	99	0.6	8.0	93		138					7
5-17-70	13.3	10		10.8	103		8.0			134					26
5-18-70	13.3	15	233	11.0	105		8.0	94	191	138	24	30	0.10	0.0	54
5-19-70	13.3	20		11.0	105		8.0	96		140					22
5-20-70	13.3	20		10.0	95	0.7	8.0	94		136					38
5-21-70	13.3	15		10.2	97	0.7	8.0	93		134					13
5-22-70	13.3	20		10.4	99	0.7	8.0	92		134					28
5-23-70	14.4	10		10.2	99	0.7	8.2	92		134					18
5-24-70	13.3	6		9.6	91	0.7	8.1	92		130					8
5-25-70	13.3	5		10.0	95	0.7	8.1	93		136					23
5-26-70	13.3	15		10.2	97	0.6	8.1	94		134					35
5-27-70	13.9	40	276	10.4	100	0.7	8.1	95	226	138	15	32	0.06	0.0	7
5-28-70	13.9	30		10.0	96	0.7	8.0	94		140					31
5-29-70	13.9	20		9.6	93	0.7	8.0	93		142					12
5-30-70	13.9	8		9.0	87	0.8	7.9	91		128					32
5-31-70	14.4	8		9.2	90	0.8	7.9	91		130					34

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
May Avg.	12.2	16	265	10.4	95	0.6	8.0	93	218	137	20	32	0.11	0.00	27
Max.	14.4	45	296	11.4	104	0.8	8.2	96	244	152	24	38	0.16	0.00	116
Min.	7.8	4	233	9.0	87	0.4	7.4	90	191	128	15	26	0.06	0.00	2
6-1-70	14.4	6		9.4	92	0.7	8.0	92		132					8
6-2-70	16.7	5		9.6	98	0.7	7.9	90							31
6-3-70	13.9	10		9.2	89	0.8	7.9	90							29
6-4-70	10 0	8		9.0	80	1.1	7.9	92		132					20
6-5-70	10.0	15	276	8.6	77	1.2	7.9	94	226	132	16	24	0.08	0.0	10
6-6-70	7.4	10		8.4	71	1.4	7.9	96		132					11
6-7-70	10.0	8		8.8	78	1.4	7.9	94		134					18
6-8-70	8.9	6		8.6	75	1.1	8.0	96		130					5
6-9-70	16.7	6		8.8	90	0.8	8.1	95		132					9
6-10-70	16.7	10		8.8	90	1.4	8.1	93		132					5
6-11-70	15.6	9		9.0	90	1.0	8.1	95		138					3
6-12-70	19.4	10	254	9.4	101	1.1	8.1	98	209	138	14	28	0.02	0.0	6
6-13-70	20.0	25		9.0	98	1.3	8.1	96		134					24
6-14-70	8.9	15		8.4	73	1.2	8.1	95		138					10
6-15-70	8.9	10		8.6	75	1.2	8.1	97		140					66
6-16-70	11.1	10		8.6	78		8.1	96		136					44
6-17-70	10.6	15		8.4	76	0.9	8.2	97		140					11
6-18-70	13.9	30	265	8.4	81	1.1	8.2	94		142	18	30	0.06	0.0	460
6-19-70	18.3	40		8.2	87	1.1	8.1	95		150					28
6-20-70	18.3	15		8.0	84	1.1	8.1	94		146					12
6-21-70	18.3	7		8.8	93	1.2	8.1	94		136					16
6-22-70	18.3	5		8.6	91	1.1	8.1	96		134					26
6-23-70	19.4	10	297	9.0	97	1.2	8.1	96	244	128	17	20	0.06	0.0	28
6-24-70	19.4	10		8.8	95	1.1	8.1	95		130					8
6-25-70	20.0	9		9.0	98	1.1	8.1	97		132					16

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
6-26-70	20.0	8		8.6	94	1.1	8.1	95		132					55
6-27-70	20.0			8.6	94	1.2	8.0	94		128					39
6-28-70	19.4	8		8.2	88	1.3	8.0	96		132					36
6-29-70	19.4	10	307	8.0	86	1.2	8.1	97	252	134	15	25	0.10	0.0	120
6-30-70	20.0	20		8.0	87	1.2	8.1	94		130					76
June Avg.	15.3	12	280	8.7	86	1.1	8.1	95	233	127	16	25	0.06	0.0	42
Max.	20.0	40	307	9.6	101	1.4	8.2	98	252	150	18	30	0.10	0.0	460
Min.	7.4	5	254	8.0	71	0.7	7.9	90	209	113	14	20	0.02	0.0	3
7-1-70	20.0	25		8.2	89	1.3	8.0	96		130					66
7-2-70	20.0	20		8.2	89	1.2	8.0	94		130					130
7-3-70	21.1	20		8.0	89	1.3	8.0	96		128					420
7-4-70	22.2	15		8.0	91	1.2	7.9	96		128					104
7-5-70	22.2	25		7.6	86	1.5	7.9	96		130					125
7-6-70	22.2	15	286	7.8	88	1.3	8.0	96	235	130	14	23	0.04	0.0	65
7-7-70	22.2	10		8.0	91	1.5	8.0	97		134					175
7-8-70	22.8	15		7.4	85	1.4	8.0	99		134					11
7-9-70	22.8	10		7.6	87	1.5	8.0	97		132					155
7-10-70	21.1	10		7.6	84	1.5	8.0	98		130					70
7-11-70	21.7	5		7.8	88	1.5	7.9	94		132					100
7-12-70	22.2	10		8.0	91	1.5	8.0	96		130					90
7-13-70	22.2	15	276	7.6	86	1.3	8.0	97	226	130	13	19	0.00	0.0	135
7-14-70	22.2	10		7.6	86	1.4	8.0	97		134					20
7-15-70	22.2	20		7.8	88	1.3	8.0	98		134					145
7-16-70	22.2	35		7.8	88	1.4	8.0	96		132					140
7-17-70	22.8	20		7.6	87	1.3	8.0	94		136					110
7-18-70	22.8	10		8.0	92	1.2	7.9	94		130					107

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-19-70	22.8	25		8.2	94	1.4	7.9	97		128					210
7-20-70	22.8	70	297	8.4	96	1.4	7.9	98	244	128	14	19	0.10	0.0	345
7-21-70	22.8	40		8.2	94	1.4	8.0	96		126					500
7-22-70	22.2	20		8.6	97	1.5	8.0	97		126					185
7-23-70	22.2	15		8.8	100	1.4	8.0	96		126					53
7-24-70	22.2	10		9.0	102	1.3	8.0	96		124					80
7-25-70	22.8	10		9.4	108	1.5	7.9	94		124					50
7-26-70	22.8	8		8.6	98	1.4	7.9	94		126					460
7-27-70	22.8	6	286	8.6	98	1.4	8.0	95	235	128	14	18	0.01	0.0	575
7-28-70	22.8	3		8.6	98	1.2	8.1	94		130					255
7-29-70	23.3	4		8.6	99	1.2	8.1	94		130					170
7-30-70	23.3	3		8.8	102	1.2	8.1	94		128					430
7-31-70	23.3	4		8.8	102	1.2	8.2	95		128					55
July Avg.	23.3	16	286	8.1	93	1.4	8.0	96		130	14	20	0.04	0.0	174
Max.	23.3	70	297	9.4	108	1.5	8.2	99		136	14	23	0.10	0.0	575
Min.	20.0	3	276	7.4	84	1.2	7.9	94		124	13	18	0.00	0.0	11
8-1-70	22.2	6		8.8	100	1.2	8.2	94		128					30
8-2-70	22.2	6		8.2	93	1.2	8.0	94		126					20
8-3-70	23.3	3		8.0	92	1.2	8.0	96		128					240
8-4-70	22.2	4		8.6	97	1.2	8.1	94		130					155
8-5-70	23.3	5	276	8.0	92	1.2	8.1	95	226	132	12	26	0.01	0.0	800
8-6-70	23.3	4		8.4	97	1.2	8.1	96		130					320
8-7-70	23.3	4		8.0	92	1.2	8.1	95		130					150
8-8-70	23.3	7		7.8	90	1.2	8.1	94		124					30
8-9-70	23.3	6		8.0	92	1.2	8.2	96		128					30
8-10-70	23.3	4		7.8	90	1.2	8.3	97		130					155

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
8-11-70	23.9	8		7.8	91	1.2	8.3	98		132					130
8-12-70	23.3	7		8.0	92	1.2	8.3	94		130					20
8-13-70	23.3	3	254	8.2	95	1.1	8.3	94	209	126	12	20	0.04	0.0	20
8-14-70	23.9	4		7.8	91	1.2	8.3	95		126					45
8-15-70	23.9	4		7.6	89	1.3	8.4	94		124					10
8-16-70	23.9	6		8.0	93	1.3	8.4	94		124					55
8-17-70	23.9	6		8.2	96	1.2	8.3	93		126					107
8-18-70	23.9	4		7.8	91	1.1	8.2	94		130					40
8-19-70	23.9	5		7.6	89	1.3	8.3	94		128					60
8-20-70	23.9	8		7.8	91	1.2	8.3	93		124					30
8-21-70	23.9	8	265	7.6	89	1.0	8.3	94	218	126	14	22	0.02	0.0	10
8-22-70	23.9	8		7.8	91	1.1	8.3	96		128					10
8-23-70	23.9	8		8.0	93	1.2	8.5	96		126					230
8-24-70	23.3	15		8.0	92	1.1	8.4	94		130					85
8-25-70	23.3	20		7.8	90	1.1	8.3	96		128					10
8-26-70	23.9	20		7.8	91	1.0	8.3	95		128					20
8-27-70	23.9	20	276	8.0	93	1.0	8.3	93	226	128	13	22	0.01	0.0	30
8-28-70	24.4	10		8.0	94	1.1	8.3	95		130					150
8-29-70	24.4	6		8.0	94	1.1	8.3	94		126					20
8-30-70	23.9	7		7.8	91	1.2	8.2	97		130					10
8-31-70	23.3	9		7.6	88	1.1	8.2			128					20
Aug. Avg.	23.5	8	268	8.0	92	1.2	8.2	95	220	128	13	23	0.02	0.0	98
Max.	24.4	20	276	8.8	100	1.3	8.5	98	226	132	14	26	0.04	0.0	800
Min.	22.2	3	254	7.6	88	1.0	8.0	93	209	124	12	20	0.01	0.0	10
9-1-70	23.3	10		8.2	95	1.2	8.2	95		128					15
9-2-70	23.3	10	286	7.8	90	1.1	8.2	94	218	130	14	20	0.02	0.0	90

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
9-3-70	22.8	20		8.0	92	1.0	8.2	93		134					97
9-4-70	22.3	35		8.0	91	1.0	8.2	94		136					240
9-5-70	22.8	15		8.0	92	1.2	8.2	98		128					130
9-6-70	22.8	4		7.8	89	1.2	8.2	96		130					110
9-7-70	22.8	3		8.0	92	1.2	8.1	97		136					55
9-8-70	22.8	3	276	8.0	92	1.1	8.1	98	226	138	17	25	0.01	0.0	28
9-9-70	22.8	5		8.4	96	1.1	8.3	98		132					33
9-10-70	22.8	25		8.4	96	1.0	8.3	97		136					78
9-11-70	21.7	20		8.4	94		8.2	99		140					25
9-12-70	22.2	9		8.0	91	1.2	8.3	99		136					30
9-13-70	22.2	8		8.4	95	1.2	8.2	98		136					30
9-14-70	21.7	7		8.4	94	1.3	8.3	97		140					400
9-15-70	21.7	10		8.4	94	1.1	8.2	97		138					153
9-16-70	21.7	6		8.6	97		8.2	98		136					163
9-17-70	21.7	6	276	8.6	97	1.1	8.2	96	226	134	15	25	0.06	0.0	80
9-18-70	21.7	9		8.8	99	1.3	8.2	96		136					110
9-19-70	21.7	8		9.0	101	1.3	8.1	98		130					140
9-20-70	21.1	6		8.8	98	1.3	7.9	98		132					40
9-21-70	20.6	4	286	9.2	101		8.2	98	235	138	14	27	0.02	0.0	20
9-22-70	20.6	7		9.2	101	1.2	8.2	97		138					185
9-23-70	20.6	9		8.8	97	1.1	8.2	96		138					180
9-24-70	20.6	8		8.4	92	1.1	8.2	96		136					115
9-25-70	20.6	8		8.6	95	1.1	8.2	97		134					20
9-26-70	20.6	8		9.0	99	1.1	8.1	98		132					40
9-27-70	20.6	15		8.6	95	1.3	8.1	98		130					57
9-28-70	20.6	55	276	9.0	99	1.1	8.1	97	226	136	14	25	0.10	0.0	190
9-29-70	19.4	75		9.4	101	1.2	8.1	96		138					385
9-30-70	18.9	20		9.0	96	1.2	8.1	98		142					155

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
Sept. Avg.	21.6	14	280	8.5	96	1.2	8.2	97	226	135	15	24	0.04	0.0	113
Max.	23.3	75	286	9.4	101	1.3	8.3	99	235	142	17	27	0.10	0.0	400
Min.	18.9	3	276	7.8	89	1.0	7.9	93	218	128	14	20	0.01	0.0	15
10-1-70	19.4	7	254	9.2	99	1.3	8.1	97	209	148	18	28	0.04	0.0	125
10-2-70	19.4	15		9.0	97	1.2	8.1	98		140					30
10-3-70	18.9	7		9.0	96	1.3	8.0	98		134					100
10-4-70	19.4	70		9.2	99	1.1	8.1	95		138					100
10-5-70	16.7	55		9.2	94	1.3	8.1	98		140					30
10-6-70	17.2	25		9.2	95	1.3	8.1	97		146					55
10-7-70	17.2	15		9.8	101	1.2	8.1	95		150					100
10-8-70	17.2	10	254	9.0	93	1.2	8.1	96	209	146	18	32	0.10	0.0	90
10-9-70	17.2	10		9.0	93	1.2	8.1	97		144					20
10-10-70	17.2	5		9.6	99	1.2	8.1	99		138					20
10-11-70	17.2	8		9.6	99	1.2	8.0	90		139					60
10-12-70	17.8	10		9.4	98	1.1	8.0	97		140					65
10-13-70	17.8	15		9.6	100	1.2	8.0	98		138					55
10-14-70	17.8	70				1.0	8.0	99		136					30
10-15-70	18.3	85	212	9.8	103	1.3	8.0	99	174	136	16	24	0.02	0.0	20
10-16-70	18.3	20		9.8	103	1.2	8.0	96		138					210
10-17-70	18.3	8		10.0	106	1.1	8.0	97		132					370
10-18-70	16.1	25		10.2	103	1.2	8.1	102		132					180
10-19-70	16.1	20		10.6	107	1.1	8.1	98		150					90
10-20-70	16.1	10		10.6	107	1.2	8.1	97		146					150
10-21-70	16.1	10		10.6	107	1.2	8.0	97		144					4
10-22-70	16.7	8	233	10.8	111	1.1	8.0	96	191	146	20	30	0.06	0.0	60
10-23-70	17.2	7		11.0	114	1.1	8.1	96		138					20
10-24-70	16.1	4		11.0	111	1.1	8.1	96		138					80
10-25-70	15.0	5		11.0	109	1.2	8.1	97		126					500

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-26-70	15.0	7		11.0	109	1.2	8.1	99		140					80
10-27-70	15.6	10		11.0	110	1.2	8.1	96		138					30
10-28-70	15.6	8	244	10.8	108	1.2	8.1	96	200	142	18	26	0.20	0.0	100
10-29-70	15.6	8		10.8	108	1.2	8.1	95		138					95
10-30-70	15.6	5		10.6	106	1.1	8.1	98		136					20
10-31-70	14.4	3		11.0	108	1.2	8.1	100		130					53
Oct. Avg.	17.0	18	240	10.0	103	1.2	8.1	97	197	140	18	28	0.08	0.0	95
Max.	19.4	85	254	11.0	113	1.3	8.1	102	209	150	20	32	0.20	0.0	500
Min.	14.4	3	212	9.0	93	1.0	8.0	90	174	126	16	24	0.02	0.0	4
11-1-70	15.6	15		10.8	108	1.2	8.0	98		133					120
11-2-70	14.4	15		10.8	106	1.3	8.0	99		134					200
11-3-70	15.0	30		11.0	109	1.3	8.0	97		136					250
11-4-70	15.0	20		11.0	109	1.3	8.0	97		138					153
11-5-70	15.0	10	212	10.6	105	1.3	8.0	98	174	136	15	24	0.04	0.0	185
11-6-70	13.3	15		10.8	103	1.2	8.0	98		136					180
11-7-70	13.3	30		11.0	105	1.2	7.9	97		130					140
11-8-70	12.8	6		10.6	100	1.3	7.9	99		130					20
11-9-70	12.2	8		11.2	104	1.3	7.9	97		136					80
11-10-70	12.2	5		11.4	106	1.2	7.9	96		138					55
11-11-70	12.2	4		11.2	104	1.2	7.9	98		142					500
11-12-70	12.2	10	223	11.4	106	1.1	7.9	97	183	134	14	25	0.06	0.0	235
11-13-70	11.7	20		11.4	104	1.0	7.9	97		132					240
11-14-70	12.2	8		11.0	102	1.1	7.9	96		126					215
11-15-70	12.2	20		11.4	106	1.4	7.9	98		134					850
11-16-70	10.6	25		11.6	104	1.3	7.9	98		138					660
11-17-70	8.9	15		11.8	102	1.2	7.9	100		140					425
11-18-70	7.8	10	297	11.8	99	1.2	7.9	100	244	146	20	27	0.03	0.0	80

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
11-19-70	8.9	15		11.4	[illegible]	1.2	7.9	99		144					53
11-20-70	8.9	20		11.6	100	1.1	7.9	100		140					40
11-21-70	8.9	55		12.0	103	1.3	7.9	97		130					550
11-22-70	8.9	25		12.0	103	1.3	7.9	96		130					80
11-23-70	7.8	330		12.4	104	1.3	7.9	97		136					700
11-24-70	5.6	240		12.6	100	1.2	7.9	98		138					467
11-25-70	5.6	95		12.6	100	1.1	7.9	97		142					1,375
11-26-70	5.6	60		13.0	104		7.9	98		140					390
11-27-70	5.6	45	276	12.8	102	1.1	7.9	96	226	138	18	26	0.08	0.0	470
11-28-70	5.6	30		12.8	102	1.3	7.9	93		130					223
11-29-70	6.1	35		13.0	105	1.3	7.9	93		128					1,760
11-30-70	6.7	30	318	13.6	111	1.1	7.9	94	270	122	20	20	0.08	0.0	200
Nov. Avg.	10.4	42	265	11.7	104	1.2	7.9	97	219	135	17	24	0.06	0.0	363
Max.	15.6	330	318	13.6	111	1.4	8.0	100	270	146	20	27	0.08	0.0	1,760
Min.	5.6	4	212	10.6	98	1.0	7.9	93	174	122	14	20	0.03	0.0	20
12-1-70	5.0	30		13.2	104	1.3	7.9	95		130					1,760
12-2-70	6.7	30	218	13.6	111	1.3	7.9	98	179	136	14	22	0.10	0.0	780
12-3-70	6.7	20		13.4	110	1.3	7.9	96		140					90
12-4-70	7.2	95		13.6	112	1.2	7.9	95		138					380
12-5-70	6.7	40		13.6	111	1.3	7.9	92		126					170
12-6-70	5.6	130		14.6	116	1.3	7.9	93		126					1,100
12-7-70	4.4	95		14.4	109	1.3	7.9	92		126					950
12-8-70	5.0	65		14.2	111	1.2	7.9	93		122					1,300
12-9-70	4.4	40	212	14.4	111	1.2	7.9	90	174	130	16	26	0.06	0.0	400
12-10-70	4.4	45		14.6	113	1.3	7.9	92		130					210
12-11-70	4.4	45		14.4	111	1.1	7.9			128					720
12-12-70	4.4	40		14.0	108	1.3	7.9	94		126					380

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
12-13-70	5.0	35		14.2	111	1.4	7.9	92		124					55
12-14-70	5.0	45		14.4	113	1.1	7.9	90		130					100
12-15-70	5.0	30		14.0	110	1.2	7.9	92		132					625
12-16-70	5.0	35		14.6	114	1.3	7.9	93		134					200
12-17-70	5.0	40	221	14.6	114	1.3	7.9	94	183	140	17	30	0.08	0.0	100
12-18-70	4.4	25		14.4	111	1.3	7.9	93		138					110
12-19-70	5.0	30		14.4	113	1.4	7.9	92		134					130
12-20-70	5.0	60		14.6	114	1.2	7.9	93		138					710
12-21-70	4.4	55		14.8	114	1.1	7.9	95		140					700
12-22-70	5.0	40		14.6	114	1.1	7.8	93		140					460
12-23-70	4.4	20	210	14.4	111	1.1	7.9	94	172	136	15	20	0.02	0.0	140
12-24-70	5.0	70		14.8	116	1.2	7.9	92		130					400
12-25-70	3.9	65		14.8	113	1.1	7.9	92		132					260
12-26-70	3.9	45		14.8	113	1.0	7.9	91		134					240
12-27-70	3.9	135		14.8	113	0.8	7.9	92		130					930
12-28-70	2.8	120	216	14.8	110	0.7	7.9	93	176	132	16	26	0.20	0.0	1,240
12-29-70	2.2	105		14.8	108	0.6	7.9	92		130					2,775
12-30-70	2.2	90		14.6	106	0.6	7.9	94		130					830
12-31-70	2.2	70		14.8	108	0.6	7.9	93		130					290
Dec. Avg.	4.7	57	215	14.4	111	1.1	7.9	93	177	131	16	25	0.09	0.0	598
Max.	7.2	135	221	14.8	116	1.4	7.9	98	183	142	17	30	0.20	0.0	2,775
Min.	2.2	20	210	13.2	104	0.6	7.8	90	172	126	14	20	0.02	0.0	55

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-1-70	0.5	30	210	13.0	90	0.9	7.6	98		138					150
1-2-70	0.5	40	230	12.3	85	1.0	7.6	94		138	60	32	0.05	0.09	93
1-3-70	0.5	40	240	12.3	85	0.9	7.6	97		138					93
1-4-70	0.5	60	240	12.2	85	0.8	7.6	100		138					240
1-5-70	0.5	50	240	12.3	85	0.8	7.5	98		138					75
1-6-70	0.5	15	220	12.2	85	0.7	7.6	97		138					93
1-7-70	0.5	15	210	13.5	94	0.9	7.6	91	210	138					1,100
1-8-70	0.5	8	220	13.8	96	0.9	7.6	93		138					460
1-9-70	0.5	10	240	13.6	94	0.8	7.5	98		138	28	31	0.02	0.04	240
1-10-70	0.5	8	230	13.6	94	0.9	7.6	90		138					93
1-11-70	0.5	6	240	13.2	91	0.4	7.6	100		138					460
1-12-70	0.5	6	230	13.6	94	0.9	7.6	97		138					240
1-13-70	0.5	8	230	11.8	82	0.9	7.6	100		138					460
1-14-70	0.5	8	230	13.5	94	0.8	7.6	101		138					460
1-15-70	0.5	8	230	13.5	94	0.7	7.6	100		138					460
1-16-70	0.5	6	230	13.8	96	0.7	7.6	101		138	30	34	0.02	0.05	2,400
1-17-70	0.5	6	220	13.4	93	0.7	7.6	102		138					93
1-18-70	0.5	6	280	13.6	94	1.1	7.6	102		138					23
1-19-70	0.5	8	240	14.2	98	0.8	7.7	102		138					75
1-20-70	0.5	5	240	13.6	94	0.6	7.7	97		138					43
1-21-70	0.5	4	220	13.5	95	0.9	7.6	97		138					240
1-22-70	0.5	4	220	13.8	96	0.7	7.6	97		138					460
1-23-70	0.5	3	240	14.0	97	0.7	7.6	97		138	30	29	0.006	0.005	240
1-24-70	0.5	4	250	14.4	100	0.6	7.6	95		138					240
1-25-70	0.5	4	300	13.6	94	0.1	7.6	102		138					240
1-26-70	0.5	3	250	14.3	99	0.7	7.6	103		138					1,100
1-27-70	0.5	3	280	14.5	101	0.9	7.6	105	200	138					1,100
1-28-70	0.5	3	220	14.5	101	0.7	7.6	95		138					1,100

TABEE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
1-29-70	0.5	3	220	14.5	101	1.0	7.6	97		138					1,100
1-30-70	0.5	3	260	14.0	97	0.9	7.6	98		138	37	33	0.01	0.03	23
1-31-70	0.5	3	280	13.5	94	0.9	7.6	99		138					43
Jan. Avg.	0.5	12	238	13.4	95	0.8	7.6	98	205	138	37	32	0.02	0.04	427
Max.	0.5	60	300	14.5	102	1.1	7.7	105	210	138	60	34	0.05	0.09	2,400
Min.	0.5	3	210	11.8	80	0.4	7.5	90	200	138	28	29	0.01	0.01	23
2-1-70	0.5	7	210	14.0	97	0.9	7.6	85		138					2,400
2-2-70	0.5	8	210	13.2	91	0.9	7.6	95		138					1,100
2-3-70	0.5	4	260	13.6	94	0.9	7.6	94	225	138					210
2-4-70	0.5	4	230	13.0	90	0.8	7.6	94		138					2,400
2-5-70	0.5	4	240	13.4	93	0.6	7.6	92		138					2,400
2-6-70	0.5	6	280	14.1	98	0.9	7.6	92		140	20	39	0.01	0.09	1,100
2-7-70	0.5	4	270	13.7	95	0.9	7.6	94		140					240
2-8-70	0.5	4	270	13.1	91	0.9	7.6	95		140					460
2-9-70	0.5	4	280	14.2	98	0.8	7.6	91		140					460
2-10-70	0.5	4	210	13.8	96	0.8	7.6	86		140					460
2-11-70	0.5	4	230	13.3	92	0.6	7.5	95		140					1,100
2-12-70	0.5	4	220	13.5	94	0.9	7.5	95		140					1,100
2-13-70	0.5	3	220	12.8	89	0.8	7.6	92		138	28	32	0.001	0.006	1,100
2-14-70	0.5	3	230	13.4	93	0.8	7.6	93		138					240
2-15-70	0.5	6	270	13.2	91	0.9	7.6	87		138					1,100
2-16-70	0.5	8	210	12.9	89	0.6	7.6	85		138					2,400
2-17-70	0.5	6	280	13.7	95	0.8	7.6	87	189	138					2,400
2-18-70	0.5	4	220	12.0	83	0.7	7.6	86		138					1,100
2-19-70	0.5	4	220	12.5	87	0.9	7.6	86		138					2,400
2-20-70	0.5	8	270	13.7	95	0.7	7.6	85		142	27	33	0.02	0.009	2,400

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
2-21-70	0.5	6	240	13.0	90	0.9	7.6	85		140					2,400
2-22-70	0.5	4	240	12.9	89	0.8	7.6	85		138					2,400
2-23-70	0.5	3	260	13.6	94	0.9	7.6	83		138					1,100
2-24-70	0.5	3	240	13.5	94	0.7	7.6	75		138					1,100
2-25-70	0.5	4	210	13.0	90	0.8	7.6	76		140					2,400
2-26-70	0.5	4	220	13.0	90	0.8	7.6	75		140					460
2-27-70	0.5	4	250	13.5	94	0.8	7.6	81		142	26	35	0.01	0.009	1,100
2-28-70	0.5	3	250	12.4	86	0.9	7.6	82		142					1,100
Feb. Avg.	0.5	5	241	13.3	94	0.8	7.6	88	207	139	25	35	0.01	0.008	1,380
Max.	0.5	8	280	14.2	100	1.0	7.6	95	225	142	28	39	0.02	0.009	2,400
Min.	0.5	3	210	12.0	85	0.6	7.5	75	189	138	20	32	0.00	0.006	210
3-1-70	0.5	3	240	12.1	84	0.8	7.6	83		142					460
3-2-70	0.5	3	220	14.0	97	1.0	7.6	83		142					43
3-3-70	0.5	4	240	14.8	103	0.7	7.6	95	193	142					9
3-4-70	0.5	4	220	14.8	103	0.7	7.6	95		142					7
3-5-70	0.5	4	220	14.5	101	0.9	7.6	95		142					43
3-6-70	0.5	4	230	14.5	101	0.7	7.6	95		144	29	32	0.006	0.01	4
3-7-70	0.5	4	230	15.2	105	0.8	7.6	85		144					2,400
3-8-70	0.5	10	230	15.2	105	0.8	7.6	65		142					2,400
3-9-70	0.5	6	320	14.2	98	1.0	7.6	74		142					2,400
3-10-70	1.1	1	240	14.1	99	0.7	7.6	68		142					2,400
3-11-70	1.1	30	150	12.5	88	0.8	7.6	55		142					2,400
3-12-70	1.1	30	160	12.5	88	0.8	7.6	55		142					2,400
3-13-70	0.5	30	210	11.3	78	1.1	7.6	55		138	27	26	0.05	0.06	2,400
3-14-70	1.1	30	210	12.2	86	0.8	7.6	62		138					2,400
3-15-70	1.1	30	200	13.1	92	1.4	7.6	66		138					2,400
3-16-70	1.1	20	200	11.6	82	0.6	7.6	62		138					2,400

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
3-17-70	1.1	20	230	13.2	93	0.9	7.6	68		138					2,400
3-18-70	0.5	30	180	12.5	87	0.7	7.6	56		138					1,100
3-19-70	0.5	15	190	12.5	87	0.9	7.6	55		138					460
3-20-70	0.5	6	220	12.6	87	0.8	7.6	79		138	31	28	0.01	0.005	460
3-21-70	0.5	8	220	12.5	87	1.1	7.6	78		138					1,100
3-22-70	0.5	6	230	12.2	85	0.8	7.6	86		138					1,100
3-23-70	0.5	4	260	12.6	87	0.9	7.6	86		138					29
3-24-70	0.5	6	280	12.9	89	0.7	7.6	90		138					93
3-25-70	0.5	4	240	13.0	90	0.9	7.6	85		140					7
3-26-70	0.5	8	250	12.8	89	0.7	7.6	85		140					23
3-27-70	0.5	40	270	12.8	89	1.2	7.7	88		146	31	42	0.12	0.175	93
3-28-70	0.5	6	290	13.5	94	0.9	7.7	95		142					43
3-29-70	0.5	10	290	13.7	95	1.0	7.8	90		144					43
3-30-70	0.5	8	290	13.2	91	0.9	7.6	91		144					43
3-31-70	1.1	8	290	12.9	91	1.1	7.7	90		144					240
Mar. Avg.	0.7	13	234	13.3	93	0.9	7.6	78		141	30	32	0.05	0.06	1,026
Max.	1.1	40	320	15.2	107	1.4	7.8	95		146	31	42	0.12	0.18	2,400
Min.	0.5	1	150	11.3	80	0.6	7.6	55		138	27	26	0.01	0.01	4
4-1-70	0.5	4	260	12.8	89	0.8	7.6	88		140					23
4-2-70	0.5	20	250	13.0	90	0.8	7.6	90		140					15
4-3-70	0.5	20	290	11.6	88	0.9	7.6	99		148	26	42	0.13	0.122	460
4-4-70	0.5	30	290	12.2	85	0.9	7.7	88		148					150
4-5-70	0.5	30	290	12.2	85	1.1	7.6	84		144					460
4-6-70	1.1	40	300	12.6	89	0.8	7.7	86		144					460
4-7-70	2.2	30	300	11.9	86	0.8	7.6	86		144					93
4-8-70	2.2	40	290	12.0	87	0.5	7.6	90		144					23

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
4-9-70	4.4	40	300	12.5	96	0.7	7.6	94		144					43
4-10-70	4.4	40	280	11.0	85	0.6	7.7	84		148	29	37	0.11	0.267	240
4-11-70	3.8	40	280	10.5	79	0.8	7.6	86		148					460
4-12-70	4.4	30	240	11.9	92	0.7	7.7	92		146					150
4-13-70	5.0	30	240	10.5	82	0.6	7.6	95		146					240
4-14-70	4.4	30	270	11.5	88	0.8	7.6	92		146					93
4-15-70	4.4	20	230	12.5	96	0.8	7.6	80		146					93
4-16-70	4.4	20	210	12.5	96	1.0	7.6	82		146					23
4-17-70	5.0	20	270	12.5	98	0.7	7.6	93		136	20	29	0.03	0.051	23
4-18-70	6.1	10	290	11.7	94	1.0	7.6	90		136					43
4-19-70	5.5	20	270	11.2	89	0.9	7.6	92		136					43
4-20-70	5.5	30	260	12.0	95	1.0	7.6	86		136					43
4-21-70	5.5	30	210	12.5	99	0.6	7.6	88		136					93
4-22-70	5.5	10	220	12.1	96	0.8	7.6	86		136					9
4-23-70	5.5	10	220	12.5	99	0.7	7.6	90		136					14
4-24-70	6.6	15	260	12.2	99	0.9	7.7	94		136	17	32	0.02	0.020	43
4-25-70	7.2	10	280	11.3	93	0.6	7.7	93		136					4
4-26-70	7.2	8	280	10.0	82	1.4	7.6	88		136					4
4-27-70	8.3	8	270	11.2	95	0.9	7.6	90		136					
4-28-70	8.3	8	280	10.2	86	0.9	7.6	88		136					
4-29-70	7.7	8	420	11.5	96	0.7	7.6	90		136					
4-30-70	7.7	6	260	11.0	92	0.8	7.6	92		136					
Apr. Avg.	4.5	22	270	11.8	91	0.8	7.6	89		141	23	35	0.08	0.12	129
Max.	8.3	40	420	13.0	100	1.4	7.7	99		148	29	42	0.13	0.27	460
Min.	0.6	4	210	10.0	80	0.5	7.6	80		136	17	29	0.02	0.03	4
5-1-70	10.0	6	310	10.2	90	0.7	7.6	90		132	26	33	0.01	0.005	4
5-2-70	10.0	6	300	9.0	79	1.1	7.7	93		132					93

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
5-3-70	9.4	6	300	10.6	92	1.2	7.7	90		132					15
5-4-70	10.0	6	270	10.5	92	1.0	7.7	93		132					4
5-5-70	10.0	6	270	9.3	82	0.7	7.7	93		132					9
5-6-70	10.0	50	260	10.3	90	0.7	7.5	92		132					460
5-7-70	10.0	15	270	10.0	88	0.6	7.6	93		132					93
5-8-70	11.6	20	240	10.0	91	0.6	7.7	90		140	25	43	0.06	0.051	4
5-9-70	12.2	10	340	10.2	94	0.6	7.6	95		140					93
5-10-70	12.2	6	330	10.0	92	0.8	7.7	95		140					23
5-11-70	12.2	8	340	7.2	66	0.8	7.7	92		140					12
5-12-70	11.6	6	300	10.2	93	0.7	7.6	85		140					9
5-13-70	12.2	6	360	9.8	90	0.7	7.6	93		140					23
5-14-70	12.2	6	370	10.0	92	0.6	7.6	93		140					240
5-15-70	12.2	4	280	10.5	97	0.8	7.6	95		140	30	25	0.02		23
5-16-70	12.2	4	260	9.3	86	0.8	7.6	90		140					43
5-17-70	11.1	4	280	11.0	99	1.0	7.8	92		140					43
5-18-70	11.1	6	240	9.5	85	0.8	7.6	95		140					43
5-19-70	12.2	6	310	9.2	85	0.9	7.7	92		140					43
5-20-70	13.8	6	300	11.6	112	0.8	7.6	92		140					3
5-21-70	13.8	4	290	11.5	111	0.9	7.6	93		140					23
5-22-70	14.4	4	300	10.7	104	0.7	7.6	93		140	21	38	0.02	0.025	93
5-23-70	15.5	4	340	8.6	86	1.0	7.7	95		140					9
5-24-70	14.4	6	290	10.2	99	0.9	7.7	97		140					9
5-25-70	11.6	4	300	8.2	75	0.9	7.6	95		140					9
5-26-70	11.6	15	300	7.0	64	0.7	7.7	94		140					240
5-27-70	14.4	15	270	9.5	92	1.0	7.6	93		140					1,100
5-28-70	14.4	10	280	9.8	95		7.6	95		140					460
5-29-70	14.4	10	290	8.0	78		7.7	95		144	25	32	0.02	0.030	240
5-30-70	13.3	6	290	6.8	65		7.6	95		144					43
5-31-70	13.8	6	300	9.5	91		7.6	92		144					23

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
May Avg.	12.2	9	296	9.6	89	0.8	7.6	93		139	25	34	0.03	0.03	114
Max.	15.5	50	370	11.6	111	1.2	7.8	97		144	30	43	0.07	0.05	1,100
Min.	9.4	4	240	6.8	64	0.6	7.5	85		132	21	25	0.01	0.01	3
6-1-70	15.5	6		8.0	80		7.7	95		140					
6-2-70	16.6	4		7.5	77	0.8	7.7	95		140					23
6-3-70	16.6	7		9.5	97	1.1	7.6	95		140					23
6-4-70	15.5	6		9.5	95	1.0	7.6	95		140					43
6-5-70	12.2	6		6.7	63	1.3	7.7	97		140	21	30	0.006	0.009	9
6-6-70	11.1	6		7.0	64	0.9	7.6	96		140					7
6-7-70	12.2	6		7.0	65	1.2	7.7	100		140					7
6-8-70	16.6	6		8.8	90	1.2	7.6	97		140					23
6-9-70	16.6	4		9.3	95	1.1	7.6	100		140					7
6-10-70	17.2	4		9.4	97	0.8	7.6	98		140					4
6-11-70	18.8	4		9.5	101	0.9	7.6	98		140					23
6-12-70	19.4	4	200	8.0	86	0.7	7.6	98		136	23	30	0.01	0.03	15
6-13-70	16.6	15	250	7.0	72	1.1	7.7	95		136					0
6-14-70	12.7	10	230	6.8	64	0.6	7.7	99		136					23
6-15-70	11.1	6	250	6.0	55	0.8	7.6	99		136					43
6-16-70	11.6	4	250	6.0	55	1.0	7.6	99		136					
6-17-70	14.4	8	220	9.5	93	0.9	7.6	95		136					
6-18-70	16.6	10	230	9.3	95	0.8	7.6	95		136					
6-19-70	16.6	15	230	9.3	95	1.1	7.6	95		136	21	30	0.07	0.06	
6-20-70	16.6	15	220	6.5	66	1.4	7.6	95		136					
6-21-70	16.1	6	230	6.5	66	1.1	7.7	95		136					93
6-22-70	17.7	10	240	9.5	99	1.2	7.7	97		136					9
6-23-70	20.0	6	250	6.5	71	2.3	7.6	97		136					4
6-24-70	20.0	6	200	8.2	89	0.8	7.6	95		136					23
6-25-70	20.0	6	240	8.3	90	0.9	7.6	95		136					23
															23

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
6-26-70	20.0	10	240	7.8	85	0.8	7.6	93		136	26	19	0.03		23
6-27-70	20.0	15	190	8.4	91	1.3	7.6	95		136					43
6-28-70	20.0	10	190	8.4	91	1.3	7.6	94		136					23
6-29-70	20.0	10	180	8.0	87	1.0	7.6	92		136					43
6-30-70	20.0	10	180	7.8	85	1.0	7.6	90		136					23
June Avg.	16.6	8	222	8.0	82	1.1	7.6	96		137	23	27	0.03	0.03	23
Max.	20.0	15	250	9.5	101	2.3	7.7	100		140	26	30	0.07	0.06	93
Min.	11.1	4	180	6.0	55	0.6	7.6	90		136	21	19	0.006	0.009	0
7-1-70	21.1	4	220	8.9	99	1.1	7.6	100		134					43
7-2-70	22.7	4	230	8.5	97	1.0	7.6	98		134					4
7-3-70	22.7	6	210	9.2	105	1.4	7.6	95		136	26	17	0.02	0.02	23
7-4-70	22.7	6	210	9.0	103	1.4	7.6	94		136					43
7-5-70	22.7	10	240	8.0	91	1.6	7.6	91		136					15
7-6-70	21.1	7	270	7.7	86	1.0	7.6	90		136					23
7-7-70	22.7	4	240	8.8	101	1.1	7.6	88		136					43
7-8-70	22.7	4	220	8.5	97	1.0	7.6	98		136					7
7-9-70	22.2	4	370	8.7	99	1.0	7.6	97		132					23
7-10-70	22.2	4	320	7.0	79	1.2	7.6	95		130	20	34	0.03	0.02	91
7-11-70	22.2	6	280	7.4	84	1.3	7.6	94		138					9
7-12-70	22.2	4	290	7.6	86	1.5	7.6	96		136					23
7-13-70	22.2	4	300	6.5	74	1.0	7.6	97		136					23
7-14-70	22.2	2	280	5.2	59	1.1	7.7	95		138					9
7-15-70	22.2	3	260	9.0	102	1.1	7.6	92		136					43
7-16-70	22.2	20	310	7.5	85	1.2	7.6	95		136					23
7-17-70	22.2	6	300	5.2	59	1.0	7.7	97		134	23	34	0.03	0.06	43
7-18-70	22.2	6	300	5.2	59	1.3	7.7	97		136					75
7-19-70	23.3	6	270	7.0	81	1.3	7.7	97		136					43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
7-20-70	23.3	20	270	5.0	58	1.1	7.9	95		136					240
7-21-70	22.2	15	270	5.6	63	1.1	7.9	95		136					150
7-22-70	22.2	6	220	7.8	88	1.0	7.8	100		136					460
7-23-70	21.6	6	230	7.8	87	1.0	7.8	98		136					23
7-24-70	22.2	6	240	5.0	57	1.0	7.8	97		144	20	40	0.02	0.009	75
7-25-70	22.2	6	270	7.0	79	1.2	7.9	95		142					23
7-26-70	23.3	6	280	7.1	82	1.3	7.8	93		140					15
7-27-70	23.8	4	270	7.7	90	1.0	7.9	93		140					23
7-28-70	24.4	6	270	7.9	93	0.9	7.9	92		140					9
7-29-70	24.4	6	260	8.0	94	0.9	7.9	95		140					
7-30-70	24.4	5	260	8.0	94	1.1	7.8	95		140					20
7-31-70	24.4	4	260	5.7	67	1.1	7.9	95		132	19	22	0.01	0.05	9
July Avg.	22.6	6	265	7.3	84	1.1	7.7	95		137	22	29	0.02	0.03	55
Max.	24.4	20	370	9.2	105	1.6	7.9	100		144	26	40	0.03	0.06	460
Min.	21.1	2	210	5.0	57	0.9	7.6	88		130	19	17	0.01	0.009	4
8-1-70	24.4	6	290	6.0	71	1.4	7.9	92		132					15
8-2-70	24.4	4	290	6.3	74	1.5	7.8	95		138					15
8-3-70	24.4	4	290	4.7	55		7.9	95		138					9
8-4-70	23.8	8	300	5.9	69	1.1	7.7	95		138					15
8-5-70	23.8	4	270	7.0	81	1.0	7.6	95		138					4
8-6-70	23.8	3	260	7.4	86	1.1	7.7	97		138					21
8-7-70	23.8	6	290	5.8	68	1.2	7.8	99		138	23	31	0.02	0.02	4
8-8-70	23.8	4	300	7.5	87	1.3	8.0	95		138					9
8-9-70	23.8	4	300	4.7	55	1.7	7.7	95		138					9
8-10-70	22.2	6	300	4.9	55	1.0	7.7	99		138					
8-11-70	22.2	4	310	4.7	53	1.1	7.7	100		138					4
8-12-70	23.8	4		7.4	86	1.0	7.8	98		138					4

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
8-13-70	25.0	4		7.7	91	1.1	7.7	99		138					
8-14-70	25.0	5		6.5	77	1.0	7.6	94		132	21	30	0.03	0.02	9
8-15-70	25.0	4	310	7.1	84	1.4	7.8	95		132					4
8-16-70	25.0	10	320	7.6	90	1.4	7.8	95		132					15
8-17-70	25.0	4	320	5.5	65	1.2	7.7	95		132					23
8-18-70	25.0	6	310	6.6	78	1.0	7.8	95		132					4
8-19-70	24.4	4		6.3	74	1.0	7.6	97		132					
8-20-70	24.4	4		6.5	76	1.1	7.7	99		132					4
8-21-70	24.4	4		6.9	81	0.9	7.6	94		132	24	28	0.02	0.02	4
8-22-70	23.8	6		6.2	72	1.3	7.7	98		132					4
8-23-70	23.8	4		7.5	87	1.7	7.7	100		138					4
8-24-70	23.8	4		7.0	81	1.0	7.8	97		132					4
8-25-70	23.8	4		7.2	84	1.1	7.8	98		132					9
8-26-70	23.8	4		7.5	87	1.0	7.8	97		132					15
8-27-70	23.8	4		7.5	87		7.8	98		132					
8-28-70	23.8	10		6.5	76		7.8	98		130	22	29	0.01	0.04	
8-29-70	23.8	10		7.5	87		7.8	99		130					4
8-30-70	23.8	8		5.7	66		7.8	105		130					4
8-31-70	23.8	30		7.5	87		7.8	97		130					4
Aug. Avg.	24.0	6	297	6.5	77	1.2	7.8	97		134	23	30	0.02	0.03	8
Max.	25.0	30	320	7.7	91	1.7	8.0	105		138	24	31	0.03	0.04	23
Min.	22.2	3	260	4.7	53	0.9	7.6	92		130	21	28	0.01	0.02	4
9-1-70	22.2	15		7.6	86	1.1	7.8	99		130					43
9-2-70	22.2	4		7.5	85	1.1	7.8	100		130					9
9-3-70	22.2	4		7.5	85	7.6	7.8	100		130					9
9-4-70	23.8	40		6.5	76	7.6	7.7	100		130	27	29	0.002	0.03	4
9-5-70	23.8	40		5.6	65	7.1	7.7	100		130					240

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
9-6-70	22.2	6		6.4	72	5.2	7.6	100		130					460
9-7-70	22.2	4		5.0	57	5.2	7.8	97		130					43
9-8-70	22.2	4		5.5	62	1.5	7.8	102		130					15
9-9-70	22.2	4		7.6	86	1.5	7.7	97		130					9
9-10-70	22.2	8		7.5	85	1.1	7.7	98		130					23
9-11-70	22.2	30		3.0	34	1.6	7.6	102		145	39	20	0.05	0.03	2,400
9-12-70	21.1	8		6.3	70	1.3	7.6	99		145					43
9-13-70	21.1	20		7.6	84	1.5	7.8	97		142					43
9-14-70	21.1	20		7.0	78	1.4	7.7	95		140					23
9-15-70	21.1	8		6.5	72	1.3	7.6	94		138					23
9-16-70	21.1	8		7.7	86	1.3	7.6	97		136					9
9-17-70	20.5	8		7.5	82	1.1	7.6	98		136					9
9-18-70	20.5	6		7.2	79	1.2	7.6	98		132	17	26	0.01	0.04	15
9-19-70	21.1	5		7.3	81	1.2	7.6	97		132					9
9-20-70	21.1	4		7.0	78	1.6	7.6	95		132					15
9-21-70	21.1	4		7.1	79	1.1	7.6	96		132					43
9-22-70	22.2	6		7.4	84	0.9	7.6	100		132					
9-23-70	22.2	4		7.6	86	1.3	7.6	95		132					23
9-24-70	22.2	4		7.3	83	1.3	7.6	93		132					9
9-25-70	22.2	4		7.0	79	1.1	7.6	95		132	19	30	0.01	0.04	43
9-26-70	22.2	4		7.1	80	1.0	7.6	92		132					23
9-27-70	21.1	10		9.2	102	1.6	7.6	97		132					43
9-28-70	20.5	30		8.5	93	9.0	7.6	93		132					240
9-29-70	20.5	10		8.5	93	1.1	7.6	96		132					2,400
9-30-70	20.5	4		8.7	96	1.1	7.6	95		132					43
Sept.Avg	21.7	11		7.0	80	2.4	7.7	94		133	26	26	0.02	0.03	218
Max.	23.8	40		9.2	102	9.0	7.8	102		145	39	30	0.05	0.04	2,400
Min.	20.5	4		3.0	34	1.0	7.6	10		130	17	20	0.002	0.03	4

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
10-1-70	20.0	4		8.5	93	1.1	7.6	95		132					43
10-2-70	18.3	8		8.0	84	1.1	7.6	95		132	22	40	0.017	0.046	43
10-3-70	17.7	40		9.5	99	1.4	7.6	96		132					240
10-4-70	16.6	20		9.2	94	1.5	7.6	95		132					150
10-5-70	15.5	8		9.6	96	1.2	7.6	96		132					460
10-6-70	16.6	6		9.8	100	0.9	7.6	98		132					35
10-7-70	16.6	4		9.8	100	1.1	7.6	92		132					23
10-8-70	17.2	3		9.7	100	1.0	7.6	95		132					43
10-9-70	17.7	4		9.5	99	0.9	7.6	96		132	18	30	0.016	0.038	23
10-10-70	17.7	6		9.6	100	1.2	7.6	93		132					23
10-11-70	17.7	4		9.3	97	1.3	7.6	94		132					15
10-12-70	17.7	4		9.8	102	1.0	7.6	95		132					93
10-13-70	17.2	4		9.2	95	1.1	7.6	96		132					9
10-14-70	17.2	4		9.8	101	1.2	7.6	92		132					9
10-15-70	16.6	6		9.8	100	1.1	7.6	95		132					9
10-16-70	15.5	20		10.4	104	1.3	7.6	96		132	17	33	0.013	0.036	240
10-17-70	15.0	30		10.6	105	1.1	7.6	97		132					460
10-18-70	15.0	10		10.5	104	1.2	7.6	96		132					93
10-19-70	15.0	10		10.6	105	1.1	7.6	95		132					460
10-20-70	15.0	7		10.3	102	1.1	7.6	96		132					460
10-21-70	14.4	5		10.6	104	1.0	7.6	95		132					1,100
10-22-70	14.4	5		10.6	104	1.2	7.6	96		132					75
10-23-70	14.4	4		10.2	100	1.0	7.6	95		132	20	27	0.008	0.040	210
10-24-70	14.4	4		10.2	100	1.4	7.6	96		132					93
10-25-70	14.4	4		10.4	102	1.5	7.6	94		132					150
10-26-70	14.4	4		10.5	103	1.0	7.6	93		132					240
10-27-70	14.4	4		10.1	99	1.0	7.6	95		132					93
10-28-70	13.3	4		10.2	107	1.1	7.7	96							43

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coll.
10-29-70	13.8	3		11.0	106	1.0	7.6	97		132					
10-30-70	12.7	3		10.8	102	1.1	7.6	96		132	18	24	0.006	0.042	23
10-31-70	13.8	4		11.2	108	1.0	7.6	97		132					23
Oct. Avg.	15.9	8		11.2	100	1.1	7.6	95		132	19	31	0.012	0.040	166
Max.	20.0	40		11.2	108	1.5	7.7	98		132	22	40	0.017	0.046	1,100
Min.	12.7	3		8.0	84	0.9	7.6	92		132	17	24	0.006	0.036	9
11-1-70	13.8	3		11.1	107	1.0	7.6	97		132					
11-2-70	13.8	3		11.6	112	1.0	7.6	96		132					9
11-3-70	13.8	3		11.0	106	1.1	7.6	96		132					460
11-4-70	13.3	4		10.7	102	0.9	7.6	100		132					93
11-5-70	12.2	8		10.8	100	0.8	7.6	100		132					93
11-6-70	12.2	5		11.2	104	0.8	7.6	94		132					460
11-7-70	12.2	6		11.2	104	1.0	7.6	95		132	34	31	0.014	0.036	210
11-8-70	11.6	5		10.5	96	0.9	7.6	96		132					460
11-9-70	12.2	4		11.6	107	0.9	7.4	95		132					120
11-10-70	12.2	4		9.0	83	1.1	7.4	100		130					93
11-11-70	12.2	6		11.5	106	1.1	7.6	96		132					15
11-12-70	12.2	6		11.7	108	1.0	7.6	96		132					93
11-13-70	12.2	8		10.5	97	1.2	7.5	92		132					23
11-14-70	11.6	10		10.2	93	1.2	7.6	97		138	7	26	0.022	0.063	240
11-15-70	10.0	10		12.2	108	1.1	7.4	95		138					93
11-16-70	8.3	20		10.6	90	1.0	7.6			138					1,100
11-17-70	8.3	30		11.0	93	1.1	7.6	102		138					93
11-18-70	8.3	15		12.2	104	0.8	7.6	94		138					150
11-19-70	8.3	6		12.0	102	0.9	7.6	95		138					23
11-20-70	9.4	30		10.6	92	1.3	7.6	97		144	31	28	0.024	0.030	39
															240

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
11-21-70	9.4	20		11.5	100	1.0	7.6	97		140					210
11-22-70	9.4	10		12.6	110	1.0	7.6	95		140					150
11-23-70	6.6	50		11.0	90	1.0	7.6	92		140					2,400
11-24-70	5.5	60		13.6	108	0.9	7.6	95		140					1,100
11-25-70	5.0	50		13.9	109	0.9	7.6	95		140					1,100
11-26-70	5.0	50		13.5	106	1.2	7.6	95		140					2,400
11-27-70	5.0	50		11.6	91	1.1	7.6	91		140	31	36	0.050	0.105	240
11-28-70	5.5	50		11.2	89	1.2	7.6	95		140					93
11-29-70	5.5	50		11.5	91	1.1		95		140					240
11-30-70	6.1	20		11.0	89	1.0	7.6	95		140					
Nov. Avg.	9.7	20		11.4	100	1.0	7.6	96		136	26	30	0.027	0.058	415
Max.	13.8	60		13.9	112	1.2	7.6	102		144	34	36	0.050	0.105	2,400
Min.	5.0	3		9.0	83	0.8	7.4	91		130	7	26	0.014	0.030	9
12-1-70	6.1	10		11.0	89	1.0	7.8	90		140					460
12-2-70	6.1	40		12.8	103	1.0	7.5	95		140					93
12-3-70	6.6	20		12.9	105	0.8	7.6	95		140					2,400
12-4-70	6.6	50		11.6	95	0.9	7.9	87		144	29	28	0.06	0.19	2,400
12-5-70	6.6	50		11.2	91	1.0	7.8	91		144					240
12-6-70	4.4	50		11.2	87	1.0	7.8	90		144					2,400
12-7-70	3.8	50		12.0	91	0.7	7.9	90		144					2,400
12-8-70	4.4	40		12.2	94	0.9	7.7	90		144					1,100
12-9-70	4.4	50		13.9	107	0.9	7.6	85		140					240
12-10-70	4.4	50		13.8	107	0.7	7.6	87		140					460
12-11-70	4.4	50		13.0	100	0.9	7.7	90		140	18	28	0.07	0.13	240
12-12-70	4.4	50		11.6	90	1.3	7.7	85		140					210
12-13-70	4.4	30		11.6	90	1.3	7.7	85		140					240
12-14-70	3.8	30		13.6	104	0.9	7.7	85		140					460

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO_4	Cl	T. Fe	T. Mn	T. Coli.
12-15-70	3.8	30		13.6	104	0.8	7.6	87		140					460
12-16-70	3.3	30		13.8	104	1.0	7.6	89		140					460
12-17-70	3.3	60		13.9	104	0.9	7.6	87		140					1,100
12-18-70	3.3	50		14.2	107	0.9	7.6	86		140	24	32	0.03	0.10	1,100
12-19-70	3.3	60		14.8	111	1.1	7.6	88		140					93
12-20-70	3.3	60		14.2	107	1.1	7.6	90		140					120
12-21-70	2.7	50		14.6	108	0.7	7.6	90		140					1,100
12-22-70	2.7	40		13.5	100	0.9	7.6	85		140					460
12-23-70	2.2	40		13.7	100	1.0	7.6	85		140					460
12-24-70	2.2	30		14.0	102	1.0	7.6	89		140					1,100
12-25-70	2.2	50		13.6	99	0.9	7.7	95		142	19	35	0.04	0.07	150
12-26-70	1.6	40		14.6	105	1.0	7.7	92		142					2,400
12-27-70	1.1	40		15.4	109	0.9	7.6	99		142					460
12-28-70	0.5	50		14.1	98	0.9	7.6	91		142					2,400
12-29-70	0.5	50		14.7	102	0.8	7.7	87		142					460
12-30-70	0.5	30		14.8	103	1.3	7.6	91		142					460
12-31-70	0.5	20		14.9	104	1.0	7.6	90		142					150
Dec. Avg.	3.5	42		13.4	100	1.0	7.7	89		141	22	31	0.05	0.12	848
Max.	6.6	60		15.4	111	1.3	7.9	99		144	29	35	0.07	0.19	2,400
Min.	0.5	10		11.0	87	0.7	7.5	85		140	17	28	0.03	0.07	93

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Erie - J4108

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coll.	Plankton
1-2-70	2.8	3	6		13.2	97	0.5	7.7	90	195	121					4	200
1-5-70	1.4	25	6		13.7	98	0.5	7.7	89	210	123	25	26			20	315
1-6-70	1.4	5	6		13.6	97	0.5	7.7	90	201	123					4	234
1-7-70	1.4	5	6		13.7	98	0.4	7.7	90	201	124			0.26	<0.01	2	189
1-8-70	1.1	4	6		13.7	97	0.4	7.7	90	205	124					8	189
1-9-70	1.1	4	8		13.8	98	0.4	7.7	90	201						6	207
1-12-70	1.1	4	6		13.0	92	0.3	7.8	91	200	128		26			2	60
1-13-70	1.1	3	6		13.2	93	0.3	7.8	97	200	128					1	63
1-14-70	1.1	2	6		13.1	93	0.3	7.8	96	200	128	22	25	<0.01	<0.01	1	55
1-15-70	1.1	1	6		13.2	93	0.3	7.8	96	200	128					18	22
1-16-70	1.1	1	6		13.1	93	0.3	7.8	94	200	127					0	33
1-19-70	1.4	1	6		13.2	94	0.4	7.8	94	201	130		25			0	72
1-20-70	1.4	1	6		13.1	94	0.4	7.8	95	200	128			0.01	<0.01	0	60
1-21-70	1.4	1	6		13.4	96	0.2	7.8	95	200	128	22				0	55
1-22-70	1.4	1	6		13.2	94	0.2	7.8	95	200	128					0	50
1-23-70	1.4	1	6		13.1	94	0.2	7.8	95	200	128					1	63
1-26-70	1.4	1	6		13.1	94		7.9	94	201	128	23	24	<0.01		<1	72
1-27-70	1.4	1	6		13.0	93	0.4	7.9	98	201	125					0	63
1-28-70	1.4	1	6		12.9	92		7.8	98	202	128			<0.01	<0.01	2	63
1-29-70	1.4	1	6		13.2	94		7.8	97	201	128					0	45
1-30-70	1.4	1	8		13.1	94	0.4	7.8	96	201	127					2	63
Jan. Avg.	1.4	3	6		13.3	95	0.3	7.8	94	201	121	22	25	0.06	0.01	3	103
Max.	2.5	25	8		13.8	98	0.5	7.9	98	210	130	24	26	0.26	0.01	20	315
Min.	1.1	1	6		12.9	92	0.2	7.7	90	195	121	22	24	0.01	0.01	0	22
2-2-70	1.4	1	6		13.3	95	0.3	7.8	97	198	128		26	<0.01	<0.01	1	81
2-3-70	1.4	1	8		13.4	96		7.8	97	205	128	23				2	81
2-4-70	1.4	1	8		13.2	94	0.4	7.8	97	201	128					3	81

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Erie - J4108

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
2-5-70	1.4	1	6		13.5	96	0.3	7.8	97	198	128					3	81
2-6-70	1.4	1	6		13.5	96		7.8	97	201	128	24	26			0	91
2-9-70	1.7	1	6		13.7	99	0.3	7.7	95	200	130					4	90
2-10-70	1.7	1	8		13.6	98	0.4	7.7	95	200	128			<0.01	0.01	2	135
2-11-70	1.7	1	6		13.5	97	0.4	7.7	93	201	130					3	135
2-12-70	1.4	1	8		13.6	97	0.4	7.7	93	200	130		27			2	234
2-13-70	1.4	1	8		13.7	98	0.3	7.7	93		130	24				0	216
2-16-70	1.7	1			13.4	96	0.3	7.8	93	200	130	24	26	<0.01	0.01	1	
2-17-70	1.7	1	8		13.5	97	0.3	7.8	93	201	130					1	205
2-18-70	1.7	1	8		13.5	97	0.4	7.7	93	201	130					3	216
2-19-70	1.4	1	6		13.5	96	0.4	7.7	92	210	132		30			0	198
2-20-70	1.4	1	8		13.6	97	0.4	7.7	92	205	130					0	162
2-23-70	1.4	1	8		13.7	98	0.4	7.6	92	201	130		30			0	108
2-24-70	1.4	1	8		13.7	98	0.3	7.6	92	200	130			<0.01	0.01	0	189
2-25-70	1.4	1	8		13.5	96		7.7	90	205	128		30	<0.01	<0.01	0	305
2-26-70	1.4	1	8		13.6	97	0.3	7.7	92	208	128					0	261
2-27-70	1.4	1	8		13.7	98		7.7	92	205	128					0	252
Feb. Avg.	1.5	1	7		13.5	97	0.4	7.7	93	202	129	23	27	0.01	0.01	1	164
Max.	1.7	1	8		13.7	99	0.9	7.8	97	210	132	24	30	0.01	0.01	4	305
Min.	1.4	1	6		13.2	94	0.3	7.6	90	198	128	23	26	0.01	0.01	0	81
3-2-70	1.7	1	6		13.6	97	0.3	7.8	92	205	128			<0.01		0	198
3-3-70	1.7	1	6		13.6	98		7.7	92	208	130		30		<0.01	0	351
3-4-70	1.7	1	8		13.7	99	0.3	7.8	93	200	130					0	333
3-5-70	1.7	1	8		13.9	100	0.3	7.8	93	200	130	23				22	360
3-6-70	1.7	1	8		13.9	100	0.5	7.8	91	200	130					3	351
3-9-70	1.7	1	8		13.9	100		7.8	91	205	128					0	198
3-10-70	1.7	1	8		14.1	102	0.4	7.8	92	208	128		28			1	171

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Erie - J4108

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coll.	Plankton
3-11-70	1.7	1	8		14.1	102	0.3	7.7	92	205	130					0	198
3-12-70	1.7	1	6		14.1	102	0.3	7.8	9[illegible]	201	130			<0.01	<0.01	2	117
3-13-70	1.7	1	8		14.1	102	0.3	7.8	91	203	130					0	198
3-16-70	1.7	1	8		13.9	100		7.8	93		130					0	153
3-17-70	1.7	1	8		13.6	9[illegible]		7.8	91	208	127		26			0	99
3-18-70	1.7	1	8		13.6	98		7.8	93	205	127					0	108
3-19-70	1.7	1	8		13.6	98	0.3	7.8	93	203	128					0	108
3-20-70	2.0	1	8		14.2	10[illegible]	0.3	7.9	93	208	125	23				0	153
3-23-70	2.0	1	8		13.7	10[illegible]	0.2	7.8	93	205	125		27			0	225
3-24-70	2.0	1	8		13.6	99	0.3	7.8	93	205	125			<0.01	<0.01	2	171
3-25-70	2.0	1	8		13.3	9[illegible]	0.3	7.6	92	205	128	25				0	153
3-26-70	2.0	1	8		13.3	96	0.3	7.6	93	205	130					2	171
3-30-70	2.0	1	8		13.7	99	0.3	7.6	92	200	121		29			0	389
3-31-70	1.[illegible]	1	8		13.4	96	0.4	7.6	84	203	123			0.08	<0.01	0	279
Mar. Avg.	1.8	1	8		13.8	99	0.3	7.8	91	204	127	23	28	0.03	0.01	2	213
Max.	2.0	1	8		14.2	103	0.5	7.9	93	208	130	25	30	0.08	0.01	22	389
Min.	1.7	1	6		13.3	96	0.3	7.6	84	200	121	23	26	0.01	0.01	0	99
4-1-70	2.0	1	8		13.5	98	0.3	7.6	85	205	120	26				0	
4-2-70	2.0	1	6		13.6	99	0.3	7.7	84	203	121					0	261
4-3-70	2.2	1	6		13.2	96	0.2	7.7	88	209	127					0	324
4-6-70	1.7	1	6		13.6	98	0.3	7.7	86	203	128		31			0	279
4-7-70	2.0	1	6		13.7	99	0.3	7.7	85	205	128					0	351
4-8-70	2.0	1	6		13.6	99		7.7	86	210	127	24				1	333
4-9-70	2.2	10	6		13.2	96	0.3	7.6	85	199	120					1	432
4-10-70	2.5	30	6		13.2	97	0.2	7.6	87	203	120			0.90	<0.02	2	585
4-13-70	3.1	8	8		13.1	98	0.3	7.6	85	203	123	23	24	0.41	0.01	0	378

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Erie - J4108

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
4-14-70	3.3	10	6		13.1	98	0.3	7.6	85	205	123					0	414
4-15-70	3.9	6	6		13.0	99	0.3	7.6	86	200	121					0	350
4-16-70	3.9	2	6		13.2	101	0.3	7.6	86	198	121					0	350
4-17-70	3.9	2	6		13.1	100	0.3	7.7	88	200	127					0	243
4-20-70	3.9	4	6		13.0	99		7.1	88	200	120	21	26			0	360
4-21-70	4.7	3	8		12.7	99	0.4	7.6	87	200	123			0.15	<0.01	1	423
4-22-70	4.7	10	8		12.7	99	0.3	7.7	88	201	123					0	432
4-23-70	6.4	6	8		12.2	99	0.3	7.6	87	200	123					0	351
4-24-70	6.7	4	8		12.2	100	0.3	7.6	87	200	123					0	
4-27-70	7.5	6	8		12.0	100	0.3	7.6	87	200	123		24		<0.01	0	288
4-28-70	7.8	3	6		11.5	96	0.3	7.7	88	200	123		26			0	
4-29-70	7.8	3	6		11.5	96	0.3	7.7	88	200	123					0	254
4-30-70	7.2	4	8		11.3	94	0.2	7.6	88	198	123	22				0	270
Apr. Avg.	4.2	5	7		12.8	98	0.3	7.6	87	202	123	23	26	0.49	<0.01	>0	350
Max.	7.8	10	8		13.7	101	0.4	7.7	88	210	128	26	31	0.90	0.02	2	585
Min.	1.7	1	6		11.3	94	0.2	7.1	84	198	120	21	24	0.15	0.01	0	234
5-1-70	10.0	2	6		11.2	99	0.4	7.7	88	199				0.13		0	261
5-4-70	9.4	2	6		11.1	97	0.3	7.6	88	195	120	20	26			0	180
5-5-70	9.2	2	6		11.2	97	0.3	7.7	88	195	121			0.16	0.01	1	216
5-6-70	10.0	4	8		10.8	95	0.3	7.7	88	195	121					0	252
5-7-70	9.7	4	6		10.6	93	0.3	7.7	88	195	122					0	270
5-8-70	9.7	4	8		10.6	93	0.3	7.6	88	198	122					0	305
5-11-70	11.1	2	8		9.9	90	0.3	7.6	87	201	122		26			0	216
5-12-70	11.1	3	6		10.0	90	0.3	7.5	86	200	125					0	234
5-13-70	10.9	2	8		9.9	89	0.3	7.6	86	210	125					0	198
5-14-70	10.3	2	6		10.2	91	0.3	7.5	88	208	125					1	216

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Erie - J4108

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coll.	Plankton
5-15-70	9.4	2	8		10.5	91	0.3	7.5	88	210	125					5	
5-18-70	10.3	2	6		10.8	96	0.2	7.7	88	205	125	20	26			0	
5-19-70	10.6	2	6		10.8	97	0.2	7.7	88	205	125					1	171
5-20-70	11.7	2	6		11.0	101	0.3	7.7	88	205	125			0.15		1	305
5-21-70	11.7	1	6		11.0	101	0.3	7.7	88	205	121					1	207
5-22-70	11.7	1	6		11.0	101	0.3	7.7	88	205	121				<0.01	0	216
5-25-70	9.4	1	6		11.5	100	0.2	7.6	86	201	125	18	24	0.12	<0.01	1	198
5-26-70	12.2	1	8		11.0	102	0.2	7.6	96	201	125					5	207
5-27-70	13.3	3	8		9.8	94		7.7	89	210	125					1	
5-28-70	12.8	2	8		9.7	92	0.3	7.6	88	208	123			0.15		0	540
May Avg.	10.7	2	7		10.6	95	0.3	7.6	89	203	123	19	26	0.14	0.01	>0	286
Max.	13.3	4	8		11.5	102	0.4	7.7	96	210	125	20	26	0.16	0.01	5	540
Min.	9.2	1	6		9.7	89	0.2	7.5	86	195	120	18	24	0.12	0.01	0	171
6-1-70	13.9	3	6		9.0	87	0.3	7.8	92	215	125	16	26	0.11	<0.01	1	400
6-2-70	14.4	1	8		8.0	78	0.6	7.8	91	205	123					0	171
6-3-70	15.3	1	6		8.3	83		7.8	91	205	123					0	
6-4-70	13.3	1	6		8.2	78	0.6	7.8	91	205	123					0	252
6-5-70	9.7	1	6		10.6	94		7.6	90	205	125					1	207
6-8-70	10.0	1	6		9.6	86	0.5	7.5	97	199	128	19	26	0.05	<0.01	0	81
6-9-70	12.2	1	6		8.9	83	0.4	7.5	96	200	128					1	135
6-10-70	12.8	1	6		9.1	86	0.4	7.6	96	200	128					0	162
6-11-70	13.3	1	6		9.1	87	0.4	7.6	93	199	125					0	234
6-12-70	13.9	1	8		9.5	92	0.4	7.7	93	205	125					1	180
6-15-70	11.4	1	6		8.1	74	0.4	7.7	97	205	127	20	24	0.05	<0.01	2	108
6-16-70	13.3	1	6		8.1	77	0.4	7.5	96	200	127					2	90
6-17-70	13.9	1	6		8.3	80	0.4	7.5	96	205	128					0	135
6-18-70	15.9	1	6		8.6	87	0.4	7.6	95	200	123					0	108

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Erie - J4108

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
6-19-70	17.2	5	6		8.1	84	0.4	7.8	94	202	127					4	90
6-22-70	17.8	1	6		7.6	79		7.6	94	200	132					1	99
6-23-70	18.1	1	6		7.8	82	0.4	7.6	92	201	128					0	
6-24-70	18.3	1	6		8.0	84	0.4	7.8	89	204	127	16	25	0.06	<0.01	0	99
6-25-70	18.6	2	6		7.7	82	0.5	7.6	92	205	123					0	
6-26-70	18.3	1	6		7.7	81		7.7	92	201	128					0	162
6-29-70	18.3	1	6		7.7	81	0.4	7.6	93	201	127	19	25	0.06	<0.01	0	
6-30-70	18.9	3	6		7.4	79		7.6	94	210	127					2	270
June Avg.	14.9	1	6		8.4	83	0.4	7.7	93	203	126	17	25	0.06	<0.01	>0	166
Max.	18.9	5	8		10.6	94	0.6	7.8	97	215	132	19	26	0.11	<0.01	4	400
Min.	9.7	1	6		7.4	74	0.3	7.5	89	199	123	16	24	0.05	<0.01	0	81
7-1-70	19.4	1	6		7.3	79	0.4	7.6	92	210	125					55	92
7-2-70	19.4	1			7.2	78	0.4	7.6	92	207	125					0	
7-6-70	21.4	2	6		7.0	78	0.4	7.7	92	207	125					0	252
7-7-70	21.1	1	8		7.3	81	0.4	7.7	90	205	125					0	189
7-8-70	21.4	1	8		6.8	76	0.4	7.7	91	200	125					0	216
7-9-70	21.1	1	8		7.0	78	0.4	7.7	90	205	125	21	28	0.11	<0.02	0	234
7-10-70	21.1	1	8		6.8	76	0.4	7.7	89	205	126					0	216
7-13-70	21.7	1	8		7.3	82	0.4	7.8	90	205	128	20	27	0.06	0.01	0	162
7-14-70	21.7	1	8		7.2	81	0.4	7.9	90	200	128					0	225
7-15-70	22.0	1	6		7.2	81	0.4	7.9	90	200	125					0	216
7-16-70	22.2	1	8		7.1	80	0.4	7.9	90	198	127					0	234
7-17-70	21.7	1	6		6.9	77	0.4	7.9	90	200	127					4	189
7-20-70	22.2	1	8		7.0	79	0.4	7.9	88	198	127					1	180
7-21-70	21.7	8	8		6.8	76		7.8	89	200	127					30	360
7-22-70	21.7	1	6		6.9	77	0.5	7.9	88	211	127					0	252

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Erie - J4108

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coll.	Plankton
7-23-70	21.7	1	6		7.4	83	0.4	7.8	88	198	127	19	26	0.15	<0.02	0	243
7-24-70	21.1	1	6		6.7	74	0.4	7.9	88	198	127					40	162
7-27-70	21.7	1	<8		8.0	90	0.3	8.0	88	198	125	18	26	0.09	0.01	0	270
7-28-70	22.2	2	>8		9.3	105	0.2	8.1	88	199	125					0	432
7-29-70	22.8	1	>8		8.2	94	0.3	8.1	88	200	120					0	207
7-30-70	22.8	1	17		8.6	98	0.4	8.2	88	199						0	306
7-31-70	23.3	1	17		8.6	99	0.3	8.1	88	196	121					0	261
July Avg.	21.6	1	8		7.4	83	0.4	7.9	89	202	126	20	27	0.10	<0.02	6	233
Max.	23.3	8	17		9.3	105	0.5	8.2	92	210	127	21	28	0.15	<0.02	55	432
Min.	19.4	1	6		6.7	74	0.2	7.6	88	196	120	18	26	0.06	0.01	0	92
8-3-70	24.2	1	<17		7.4	87	0.3	8.1	87	198	123	17	26	0.06	0.01	0	216
8-4-70	23.9	2	24		7.4	86	0.2	8.1	89	201	120					0	270
8-5-70	23.9	2	24		7.2	84	0.3	8.1	88	200	12					0	180
8-6-70	23.9	2	24		7.2	84	0.4	8.1	88	200	121					0	162
8-7-70	23.9	1	17		7.0	82	0.4	8.1	80	195	123					0	189
8-10-70	21.7	1	17		7.4	83	0.4	7.9	93	200	125	<18	25	0.06	>0.01	0	
8-11-70	21.7	1	12		7.3	82	0.4	7.9	94	195	126					0	72
8-12-70	22.5	1	8		7.2	82	0.4	8.0	92	200	126					0	
8-13-70	22.5	1	8		7.3	83	0.4	8.0	93	200	126					1	90
8-14-70	22.8	1	12		7.1	81	0.4	8.1	93	200	123					0	
8-17-70	24.4	1	6		7.4	87	0.3	8.1	91	195	121	17	25	0.11	0.01	0	117
8-18-70	24.7	1	6		7.3	86	0.3	8.1	92	195	121					0	
8-19-70	24.7	2	8		7.4	87	0.3	8.2	92	196	121					0	
8-20-70	24.7	1	6		7.1	84	0.4	8.2	92	195	123					0	138
8-21-70	24.4	1	6		7.1	83	0.3	8.2	92	198	123					0	138
8-24-70	23.8	2	8		7.1	83	0.3	8.1	92	200	123	17	26	0.09	0.01	0	198

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Erie - J4108

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
8-25-70	23.8	1	8		7.1	83	0.3	8.1	92	198	122					0	
8-26-70	23.8	1	6		7.2	84	0.2	8.1	90	200	123					0	207
8-27-70	23.3	1	8		7.3	84	0.2	8.1	89	195	123					0	
8-28-70	23.3	1	8		7.5	87	0.3	8.1	89	200	123					0	288
8-31-70	23.3	4	6		7.1	82	0.2	8.2	90	196	125	23	26	0.20	0.01	0	288
Aug. Avg.	23.6	1	11		7.2	84	0.3	8.1	91	198	123	23	26	0.10	0.01	>0	182
Max.	24.7	4	24		7.5	87	0.4	8.2	94	201	126	23	26	0.20	>0.01	1	288
Min.	21.7	1	6		7.0	81	0.2	7.9	88	195	120	17	25	0.06	0.01	0	72
9-1-70	23.3	2	6		7.3	84	0.2	8.2	90	196	125					0	
9-2-70	22.8	2	6		7.5	86	0.2	8.1	89	198	124					0	207
9-3-70	22.8	1	6		7.5	86	0.2	8.1	90	198	124					8	135
9-4-70	22.5	6	6		7.6	86	0.3	8.0	92	200	127					8	279
9-8-70	22.5	2	6		7.2	82	0.4	8.0	91	200	127	24	25	0.09	0.02	0	
9-9-70	22.2	1	6		7.3	82	0.4	8.0	91	200	125					0	
9-10-70	22.2	2	6		7.7	87	0.6	8.0	90	200	127					2	225
9-11-70	22.0	6	6		7.6	86	0.4	8.0	90	200	127					8	423
9-14-70	21.7	8	6		7.6	85	0.8	7.6	90	250	127	29	27	0.38	0.01	16	333
9-15-70	21.1	7	6		7.4	82	0.4	8.0	89	198	124					0	288
9-16-70	20.9	4	6		7.6	84	0.3	8.0	91	198	124					0	189
9-17-70	20.9	2	6		7.6	84	0.3	8.1	90	198	124					0	
9-18-70	20.9	2	6		7.6	84	0.3	8.1	90	200	124	23		0.11	0.02	4	180
9-21-70	20.9	2	6		8.0	88	0.4	8.1	92	195	123	23	25	0.11	0.02	4	117
9-22-70	20.9	2	6		8.0	88	0.4	8.1	89	196	123					0	121
9-23-70	21.1	2	6		8.0	89	0.3	8.0	90	195	123					4	198
9-24-70	21.4	2	6		7.9	88	0.4	8.1	92	200	128					12	189
9-25-70	21.7	2	6		7.8	88	0.3	8.1	90	200	123					8	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Erie - J4108

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
9-28-70	20.9	2	6		7.5	83	0.5	8.1	91	195	126	26	26	0.11	0.02	24	279
9-29-70	20.0	4	6		7.5	82	0.4	7.9	91	205	130					24	
9-30-70	19.4	4	6		7.9	85	0.4	8.0	91	210	130					24	333
Sept. Avg.	21.5	3	6		7.6	85	0.4	8.0	90	202	125	25	26	0.16	0.02	7	236
Max.	22.8	8	6		8.0	89	0.6	8.2	92	250	130	29	27	0.38	0.02	24	423
Min.	19.4	1	6		7.2	82	0.2	7.6	89	195	123	23	25	0.09	0.01	0	117
10-1-70	18.9	3	6		7.8	83	0.4	8.0	91	205	130					10	207
10-2-70	18.9	2	6		7.9	84	0.4	8.0	91	205	130					10	234
10-5-70	17.8	20	8		7.9	82	0.5	7.8	91	200	128	27	27	0.58	<0.02	40	531
10-6-70	17.0	9	6		8.5	88	0.4	8.0	90	210	128					20	333
10-7-70	16.7	3	8		8.5	87	0.4	8.0	91	208	128					0	180
10-8-70	17.2	2	8		8.4	87	0.4	8.0	91	205	128					0	243
10-9-70	17.2	2	6		8.5	87	0.4	8.1	92	212	132					0	243
10-12-70	17.0	2	6		8.7	88	0.4	7.9	92	230	137					4	
10-13-70	16.7	2	6		8.8	89	0.3	7.9	90	220	137	25	40	0.10	0.01	4	189
10-14-70	17.2	2	6		8.6	89	0.3	7.9	90	210	135					16	207
10-15-70	17.2	2	6		8.5	88	0.3	7.9	91	220	137					12	
10-16-70	17.0	2	6		8.7	90	0.2	7.8	90	205	130					8	
10-19-70	15.6	8	6		8.9	89	0.3	7.9	90	205	130					28	
10-20-70	15.3	4	6		8.7	87	0.3	7.9	90	195	128	27	29	0.24	0.01	12	270
10-21-70	15.3	2	6		9.1	91	0.4	7.9	90	198	128					0	243
10-22-70	15.0	2	8		9.0	89	0.4	7.9	93	220	130					4	234
10-23-70	15.6	2	6		8.8	88	0.4	7.9	92	210	130					8	207
10-26-70	15.0	4	6		8.1	80	0.7	7.5	90	230	126	27	30	0.24	<0.02	4	252
10-27-70	15.0	2	6		9.1	90	0.2	7.7	92	200	132					8	216
10-28-70	15.0	1	6		9.0	89	0.6	7.8	90	205	130					8	

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Erie - J4108

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
10-29-70	14.4	2	6		9.1	89	0.5	7.8	93	205	128					0	
10-30-70	14.4	1	6		9.2	90	0.4	7.[illegible]	94	205	128					0	162
Oct. Avg.	16.3	4	6		8.6	87	0.4	[illegible]	91	209	130	26	32	0.29	<0.02	9	247
Max.	18.9	20	8		9.2	91	0.7	8.1	94	230	137	27	40	0.58	<0.02	40	531
Min.	14.4	1	6		7.8	80	0.2	7.5	90	195	126	25	27	0.10	0.01	0	180
11-2-70	14.2	1	6		9.2	89	0.4	7.9	93	205	128					[illegible]2	279
11-4-70	14.2	4	8		9.2	90	0.3	7.8	93	208	132					4	333
11-5-70	13.6	3			9.4	90	0.4	7.8	93	205	128	27	29	0.25	>0.01	16	
11-6-70	13.6	6	8		5.9	57	0.3	7.7	91	230	130					24	432
11-9-70	12.8	2			9.2	87	0.3	7.6	92	205	130	25	29	0.20	<0.02	24	
11-10-70	12.8	2			9.3	88	0.3	7.8	92	205	130					0	
11-11-70	12.8	1	6		9.2	87	0.4	7.7	91	208	128					12	207
11-12-70	12.8	1	8		9.3	88	0.6	7.7	90	200	130					20	234
11-13-70	12.8	1	8		9.1	86	0.6	7.7	91	205	130					4	216
11-16-70	11.7	8			9.2	84	1.0	7.6	90	210						28	
11-17-70	11.7	7						7.6	90	210						12	
11-18-70	10.9	2	6		10.0	90	0.4	7.8	90	200	130	26	28	0.17	0.01	40	171
11-19-70	10.6	1			10.2	91	0.4	7.7	90	200	130					0	
11-20-70	10.0	2	8		9.8	86	0.7	7.5	90	200	130					32	182
11-23-70	10.0	30			10.6	94	0.5	7.7	91	200	130	25	28	0.19	<0.02	0	
11-24-70	8.9	60			10.5	90	0.5	7.7	91	200	130					0	
11-25-70	8.3	60	8		11.5	98	0.6	7.7	90	198	126					20	1,503
11-27-70	7.2	20	8		11.7	97	0.5	7.7	89	195	128					0	288
11-30-70	6.7	20	6		11.7	96	0.4	7.7	89	200	128					0	315
Nov. Avg.	11.3	12	7		9.7	88	0.5	7.7	91	204	129	26	28	0.20	<0.02	13	376
Max.	14.2	60	8		11.7	98	1.0	7.9	93	210	130	27	29	0.25	<0.02	40	1,503
Min.	6.7	1	6		9.1	57	0.3	7.5	89	195	126	25	28	0.17	0.01	0	162

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Erie - J4108

Date	T	TB	TO	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard	SO_4	Cl	T. Fe	T. Mn	T. Coli.	Plankton
12-1-70	6.7	10	6		12.0	98	0.4	7.8	88	195	126	22	29	0.37	0.01	12	
12-2-70	6.7	10	6		11.8	96	0.4	7.8	88	195	126					44	270
12-3-70	8.1	15	6		12.0	101	0.4	7.8	88	198	126					24	
12-4-70	8.9	35	6		11.5	99	0.7	7.7	88	205	126					56	
12-7-70	7.2	65	8		11.9	98	0.8	7.7	89	190	124	25	27	0.95	0.01	10	567
12-8-70	6.7	30	6		11.9	97	0.4	7.6	90	195	125					30	276
12-9-70	7.0	40	8		12.0	98	0.6	7.7	88	198	126					120	477
12-10-70	7.0	35	8		11.9	98	0.6	7.7	86	200	126					20	495
12-11-70	7.0	25	6		12.0	98	0.6	7.7	87	200	126					10	432
12-14-70	6.4	35	6		12.2	99	0.5	7.7	87	190	125					10	603
12-15-70	6.7	60	6		12.2	100	0.6	7.7	86	190	125	24	28	0.50	0.02	30	
12-16-70	5.6	25	6		12.1	96	0.6	7.7	87	195	125					0	270
12-17-70	6.7	15	6		12.0	98	0.7	7.7	89	190	126					0	288
12-18-70	5.6	25	6		12.1	96	0.6	7.7	87	195	126					20	395
12-21-70	5.0	35	6		12.4	97	0.5	7,8	83	185	120	22	24	1.50	0.02	20	
12-22-70	5.0	45	6		12.4	97	0.8	7.7	84	185	120					10	468
12-23-70	5.6	30	6		12.5	100	0.5	7.8	84	185	120					16	
12-24-70	5.0	30	6		12.6	99	0.6	7.8	84	185	120					60	
12-28-70	3.6	35	6		12.8	97	0.6	7.8	84	200	124	24	28	1.20	0.02	40	252
12-29-70	3.3	40	6		12.8	96	0.7	7.8	84	200	124					10	
12-30-70	2.5	15	6		13.2	97	0.6	7.8	84	200	124					30	
12-31-70	2.2	15	6		13.0	95	0.5	7.8	84	200	129					30	
Dec. Avg.	5.8	30	6		12.2	98	0.6	7.7	86	194	124	23	27	1.30	0.02	27	399
Max.	8.9	65	8		13.2	101	0.8	7.8	90	205	129	25	29	2.50	0.02	120	603
Min.	2.2	10	6		11.5	95	0.4	7.6	83	185	120	22	24	0.37	0.01	0	252

TABLE 4 (Continued)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Buffalo - S5631*

Date	T	TB	Clr	DO	% Sat.	pH	T.Alk.	TS	TDS	Hard.	SO_4	Cl	F	TP	BOD	COD	MBAS	T.Coli.
1-7-70	0.0	7	0	13.9	95	8.0	98	226	216	128	29	28	0.20	<0.02	1.6	3.2	<0.01	10
1-15-70	0.0	5	0	13.5	92	8.0	92	227	217	136	34	28	0.20	<0.02	0.5	2.4	<0.01	5
1-21-70	0.0	3	0	13.4	92	8.1	96	201	197	128	34	30	0.10	<0.02	1.1	2.8	<0.01	5
1-28-70	0.0	4	0	13.3	91	8.2	94	203	192	128	30	28	0.10	<0.02	1.4	2.8	<0.01	3
2-4-70	0.0	2	0	13.3	91	7.9	92	183	181	136	23	25	0.10	0.02	1.6	3.2	<0.01	6
2-11-70	0.0	4	0	13.4	92	8.1	98	197	191	136	24	28	0.20	0.02	0.7	2.8	<0.01	1
2-18-70	0.0	7	0	12.9	88	8.1	82	210	207	136	27	28	0.10	<0.02	1.1	0.4	<0.01	1
2-25-70	0.0	2	0	13.5	94	8.0	94	201	197	132	24	23	0.15	0.03	2.9	4.4	<0.01	3
3-4-70	0.0	3	0	13.5	93	8.2	96	227	206	128	25	28	0.20	<0.02	0.5	6.4	<0.01	<1
3-11-70	0.0	3	0	13.4	92	8.1	88	220	206	136	26	25	0.13	<0.02	1.3	7.2	<0.01	1
3-18-70	0.0	2	0	13.2	90	8.2	84	200	180	130	26	25	<0.20	<0.02	1.1	4.0	0.01	<1
3-25-70	0.0	2	0	13.5	93	8.3	96	206	204	136	25	25	0.10	0.02	1.7	2.8	<0.01	3
4-1-70	0.0	2	0	13.5	92	8.2	84	222	210	132	24	28	0.10	<0.02	3.5	1.6	<0.01	<1
4-8-70	0.0	2	0	13.4	92	8.1	88	193	192	136	25	28	<0.01	0.02	0.9	4.0	<0.01	1
4-15-70	0.0	2	0	14.0	95	8.2	88	205	200	132	24	28	0.10	0.02	2.0	4.0	<0.01	1
4-22-70	0.0	8	0	13.5	93	7.8	86	228	186	136	19	25	0.20	0.02	2.6	10.8	<0.01	12
4-29-70	1.0	3	0	13.8	97	7.4	90	228	202	134	23	28	<0.10	0.05	2.4	5.6	<0.01	1
5-11-70	6.0	3	0	13.6	109	8.0	88	157	146	132	28	28	0.10	<0.05	1.0	10.4	<0.01	5
5-13-70	7.8	2	0	12.1	101	7.9	92			128	22	32	<0.01	0.01	1.6	12.4	<0.01	5
5-20-70	10.0	2	0	12.5	108	7.7	92			124	23	30	<0.10	0.01	2.1	4.0	<0.01	3
5-27-70	11.1	6	0	11.0	100	7.8	96			128	32	28	0.20	0.04	2.8	6.8	<0.01	6
6-3-70	11.7	2	0	11.7	108	8.4	98	200	189	128	25	28	0.20	0.02	2.9	7.6	<0.01	0
6-10-70	13.3	2	0	12.2	116	8.7	92	208	205	128	25	30	<0.10	0.05	4.1	5.2	<0.01	15
6-17-70	18.0	2	0	11.0	115	8.8	96	235	227	124	25	25	0.10	0.02	2.0	6.0	<0.01	6
6-24-70	16.7	4	0	8.9	99	8.5	92	218	215	136	27	25	<0.10	<0.01	2.4	8.0	<0.01	2
7-2-70	17.8	1	0	9.1	96	8.3	94	208	204	128	24	28	0.40	0.05	1.3	2.0	<0.10	3
7-9-70	19.0	1	0	8.7	93	8.2	96	231	228	136	22	25	0.30	0.03	1.1	2.4	<0.01	5
7-16-70	21.0	8	0	8.2	91	8.4	92	229	208	124	24	25	0.10	0.04	1.9	8.0	<0.01	8
7-23-70	20.6	3	0	8.5	95	7.6	88	247	208	136	92	28	0.10	0.06	1.9	4.8	<0.01	6

TABLE 4 (Concluded)

WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Buffalo - S5631*

Date	T	TB	Clr	DO	% Sat.	pH	T.Alk.	TS	TDS	Hard.	SO_4	Cl	F	TP	BOD	COD	MBAS	T.Coli.
7-30-70	22.8	2	0	9.8	111	8.7	90	220	220	120	51	25	<0.10	0.02	1.5	4.4	<0.01	12
8-6-70	24.4	7	0	8.0	94	8.4	92	232	211	120	29	25	0.20	0.01	0.8	3.6	0.01	4
8-13-70	24.4	6	0	8.7	102	8.4	96	237	211	124	23	25	0.20	0.01	1.3	8.8	<0.01	5
8-20-70	23.0	1	0	7.6	87	8.5	82	214	202	132	28	25	<0.10	0.03	1.1	3.6	<0.01	6
8-27-70	23.9	3	0	7.6	88	8.6	90	209		128	25	25	0.10	0.10	0.8	5.2	0.01	5
9-3-70	22.8	7	0	7.6	87	8.5	84	228	224	120	26	28	<0.10	0.01	6.3	8.0	<0.01	18
9-10-70	22.0	4	0	7.7	88	8.4	88	250	223	124	24	28	<0.10	0.06	2.9	6.8	<0.01	12
9-16-70	20.6	1	0	7.8	87	8.2	94	218	201	132	27	30	<0.10	0.02	0.7	6.4	<0.01	7
9-23-70	20.6	3	0	7.7	85	8.4	92	232	224	124	29	18	<0.20	0.02	0.6	3.2	<0.01	8
10-1-70	19.4	2	1	8.2	88	8.2	96	221	213	128	31	30	<0.10	0.02	0.6	2.8	<0.01	6
10-8-70	16.7	2	0	8.6	88	8.2	94	250	218	132	25	25	<0.10	0.02	0.7	3.2	<0.01	6
10-14-70	17.2	1	0	8.4	87	8.4	94	280	251	136	33	22	<0.10	0.02	1.1	<0.1	<0.01	4
10-22-70	14.5	2	0	9.1	87	8.2	92	270	210	132	27	25	<0.02	0.01	0.5	8.0	<0.01	10
10-29-70	14.4	1	0	9.5	92	8.2	96	225	213	128	26	25	<0.10	0.01	0.9	1.2	<0.01	17
11-5-70	13.3	2	0	9.5	90	8.1	96	214	211	128	23	28	0.10	0.03	0.9	0.4	<0.01	9
11-12-70	12.2	1	0	9.7	90	7.7	92	241	214	128	23	25	<0.10	0.01	1.1	1.2	<0.01	11
11-19-70	10.6	8	0	10.5	95	8.1	96	239	212	128	22	28	<0.20	0.02	1.5	6.8	<0.01	9
11-25-70	7.8	120	0	10.7	90	7.9	96	423	259	128	35	28	<0.20	0.24	2.0	18.4	<0.01	7
12-2-70	6.7	25	0	11.1	90	8.1	94	260	231	132	36	25	<0.10	0.04	1.4	6.0	<0.01	2
12-9-70	5.0	20	1	11.3	88	8.1	94	261	250	132	31	25	<0.10	0.04	3.2	6.0	<0.01	10
12-16-70	3.9	10	0	12.2	93	8.1	92	236	225	136	34	22	<0.20	0.03	1.5	4.0	<0.01	
12-23-70	3.3	7	0	12.2	91	7.7	96	246	216	128	27	30	<0.10	0.03	1.0	0.4	<0.01	5
12-30-70	1.7	10	0	12.6	91	7.9	96	227	202	128	27	28	<0.20	0.03	1.5	0.8	<0.01	6

*Monthly maximum, minimum and average values not calculated due to insufficient data.

Note: No water chemistry-water plant intake data available on Dunkirk, Sturgeon Point, and Woodlawn.

TABLE 5

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Toledo																	
1-5-70	1.0	14.8	105			1.17	.46	.55	17.6								
1-26-70	1.9	13.1	96	<.05	.00	.63	.39	.47	14.0	292	191	101			24	<4	550
2-2-70	2.0	13.3	97	>.09	<.03	.58	.51	.66	11.6	254	248	6			12	<2	430
2-16-70	1.9	11.0	80	<.05	>.15	.09	1.50	2.86	22.6	302	229	73			34	<2	35
3-2-70	1.0	13.9	99	<.09	>.01	.40	.52	.26	11.5	227	201	26			1,900	80	4,500
6-8-70	18.0	7.4	77	1.87	1.86	.25	.03	.55	13.1	441					45	<2	160
7-6-70	21.5	7.2	80	1.48	1.35	.50	.08	.18	17.8	366			1.7	30	2,000	<10	420
8-3-70	23.5	6.3	73	.04	.01	.34	.30	.19	14.3	210			2.1	8	500	<2	420
8-31-70	21.0	7.4	82	.10	.00	.67	.09	.01	20.6	232			1.2	4	20	<2	880
9-28-70	17.5	7.6	79	.09	.02	1.18	.28	.25	12.7	215			1.1	20			
12-14-70				.02	.02	.29	.19	.54	10.0	214			0.3	15		<2	300
														35		14	2,200
Port Clinton																	
1-5-70	1.5	13.6	98	<.06	.00	.14	.44	.58	12.2	272	210	62			1,200	120	520
1-26-70	1.2	14.7	105	<.11	<.01	.80	.20	1.20	13.3	244	242	2			4,300	400	270
2-2-70	1.6	13.6	99	<.09	>.02	.53	.91	1.10	16.0	267	213	54			1,300	60	1,400
2-16-70	2.0	14.8	108	<.06	<.05	1.00	.31	1.13	13.7	266	234	32			2,000	550	780
3-2-70	2.5	14.3	106	.04	<.03	.23	.46	.84	14.6	271	226	45			200	4	130
6-8-70	20.0	5.6	61	.95	.68	.13	.13	.63	10.8	419			1.3	20	630	<4	1,800
7-6-70	22.5	5.8	66	.27	.05	.35	.15	.48	17.1	356			0.9	10	120	<2	1,300
8-3-70	24.5	3.5	41	.05	.01	.44	.30	.09	15.4	260			0.9	9	80	<2	6,300
8-31-70	22.0	5.3	59	.07	.00	1.31	.11	.05	30.4	293			0.9	50			
9-28-70	17.5	7.1	73	.07	.04	.44	.06	.18	7.7	229			0.6	35		30	4,900
12-14-70				.04	.01	.65	.45	.76	12.8	287				55		70	1,700

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Sandusky																	
1-5-70	1.0	13.7	98	.01	>.00	.28	.30	.32	9.4	239	203	36			170	30	150
1-26-70	0.0	13.6	94	>.04	>.00	.84	.16	.39	10.1	204	199	5			16	<2	40
2-2-70	0.7	13.2	93	>.03	>.00	.54	.29	.40	14.3	189	172	17			28	<2	56
2-16-70	0.0	14.6	101	<.05	>.04	.60	.29	.49	6.4	218	204	14			6	<2	40
6-8-70	18.5	7.0	74	.56	.44	.21	.09	.26	12.5	402			1.8	15	740	<2	160
7-6-70	21.8	6.6	74	.08	.03	.52	.18	.18	16.9	361			0.7	8	2,500	<2	1,100
8-3-70	23.5	4.9	56	.06	.01	.35	.13	.07	12.4	273			2.1	5	200	<2	
8-31-70	21.5	7.6	85	.02	.01	.35	.19	.03	16.7	266			1.0	20			
9-28-70	18.0	7.1	74	.06	.04	.23	.07	.14	9.5	219			0.4	15		<2	2,900
12-14-70				.02	.02	.18	.82	.72	14.0	279				45		9	350
Huron																	
1-5-70	1.0	14.2	101	<.08	<.01	.48	.20	.34	12.1	241	210	31			3,400	84	750
1-26-70	4.0	14.0	108	>.04	>.00	.61	.15	.20	11.7	233	198	35			1,300	190	180
2-2-70	0.5	13.7	96	<.06	<.02	.45	.16	.99	21.9	186	169	17			1,800	450	1,300
2-16-70	2.0	15.1	111	>.05	.04	.96	.12	.54	14.3	218	202	16			85	12	100
3-2-70	0.8	15.3	117	>.10	<.06	.45	.67	.45	15.6	187	183	4			38	4	80
6-8-70	20.0	7.7	83	.12	.05	.15	.07	.33	12.5	381			1.3	10	120	<2	90
7-6-70	21.8	5.7	64	.20	.10	.49	.19	.16	15.8	380			1.5	7	74	2	710
8-3-70	23.5	6.0	69	.04	.01	.53	.11	.05	18.9	295			1.3	8	40	14	1,600
8-31-70	22.0	6.7	75	.05	.04	.36	.02	.14	18.4	253			0.8	10			
9-28-70	18.5	7.7	81	.05	.02	.38	.06	.08	11.6	222			0.3	10		<2	780
12-14-70				.04	.01	.74	.64	.68	15.6	284				50		16	320

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Vermilion																	
1-5-70	1.3			>.05	>.00	.02	.40	.25	13.3	264	215	49			92	20	150
1-26-70				>.04	<.01	.46	.30	.26	9.6	189	188	1			110	6	46
2-2-70	0.5	13.1	92	>.04	>.00	.27	.17	.51	12.8	196	151	45			550	66	1,400
2-17-70	2.0	14.8	108	<.06	<.02	.42	.00	1.64	> 7.0	215	198	17			<4	2	420
3-2-70				<.03	>.02			1.12	> 5.3	219	204	15					
6-8-70	20.0	7.9	86	.09	<.01	.16	.04	.45	10.6	452			1.1	15	16	<2	150
7-6-70	22.5	6.5	74	.07	.01	.30	.30	.14	15.1	375			0.7	10	330	<2	1,500
8-3-70	24.0	6.5	75	.03	.01	.55	.21	.01	15.7	262			0.6	7	420	<2	2,100
8-31-70	21.0	6.9	76	.02	.00	.58	.00	.00	18.4	290			0.7	20			
9-28-70	16.0	8.3	83	.11	.02			.08	8.6	264			0.8	35		40	4,900
12-14-70				.05	.01	.36	.64	.64	11.0	245				30		38	1,300
Elyria																	
1-6-70	1.5	14.1	102	>06	.00	.55	.22	.19	11.4	265	188	77			110	<4	170
1-27-70	1.5	13.9	138	.04	>.00	.49	.17	.16	11.7	209	206	3			40	<2	24
2-3-70	0.5	14.1	98	.06	<.03	.71	.27	.48	22.3	265	148	117			1,800	350	9,600
2-17-70	0.2	14.7	102	.05	<.04	.81	.23	.28	13.5	202	196	6			<5	<4	150
3-2-70	1.5	16.6	120			.68	.23	.54	14.8						36	2	320
6-9-70	19.5	9.0	97	.05	<.01	.18	.07	.40	10.6	384			1.4	9	260	2	600
7-6-70	22.0	7.3	82	.08	.01	.28	.16	.08	13.8	342			1.2	7	200	<2	390
8-3-70	24.0	7.5	87	.03	>.00	.84	.04	.01	18.4	255			0.6	8	1,300	<2	740
8-31-70	21.0	7.8	86	<.01	.00			.00	16.3	264			0.7	15			
9-28-70				.03	.02	.53	.01	.03	9.3	245			0.5	30			
12-14-70				.02	.02	.58	.16	.44	9.8	224				25		2	210

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coli, org/100 ml	Fec. Coli, org/100 ml	35°C SPC org/100 ml
Lorain																	
1-6-70	1.9	12.6	92	>.04	.00	.50	.20	.17	10.4	248	180	68			210	12	300
1-27-70	1.9	13.7	100	<.04	<.01	.63	.24	.15	12.7	217	185	32			10	2	9
2-3-70	1.5	13.4	97	<.02	<.01	.80	.15	.47	21.1	258	148	110			4,000	140	4,100
2-17-70	1.9	14.6	107	>.07	.01	.69	.24	.33	13.2	190	184	6			<5	<2	110
3-2-70	1.0	16.5	118	.07	.03	.15	.37	.44	11.5	262	218	44			<2	<2	170
6-9-70	21.0	9.5	105	.07	.01	.19	.14	.31	11.9	386			1.3	7	15	<2	140
7-6-70	23.5	6.1	70	.06	.01			.38	5.4	338			0.9	8	140	<10	140
8-3-70	26.0	7.0	84	.04	.03	.74	.06	.02	13.4	268			0.6	10	4	<2	66
8-31-70	22.0	7.5	84	.03	.00	.30	.06	.02	12.8	242			0.7	10			
9-28-70	20.7	8.1	89	.09	.03	.34	.02	.07	9.3	239			0.5	25		6	350
12-14-70				.04	.02	.26	.60	.40	33.8	209				25		12	320
Avon Lake																	
1-6-70	1.5	12.9	93	.14	.00	.15	.18	.08	13.7	229	195	34			240	4	110
1-27-70	1.0	13.9	99	>.02	<.01	.48	.16	.14	9.2	205	204	1			3,200	280	95
2-3-70	1.7	13.8	100	>.05	>.04	.44	.22	.30	17.3	217	152	65			2,800	190	2,300
2-17-70	1.5	14.2	103	<.04	<.03	.87	.20	.40	10.8	198	189	9			1,800	270	2,300
3-2-70	1.0	16.2	115	<.05	<.02	.39	.22	.31	<9.5	233	203	30			19,000	64	880
6-9-70	18.5	8.3	87	.06	.00	.22	.06	.31	8.1	391			1.4	6	700	<4	60
7-6-70	22.5	6.5	74	.01	.00	.34	.12	.14	13.8	316			1.4	4	190	16	430
8-5-70	23.0	7.2	82	.03	.01	.25	.07	.04	13.8	241			0.8	3	10,000	<2	470
8-31-70	22.0	7.6	85	.01	>.00	.08	.08	.00	16.1	270			0.6	15			
9-28-70	19.0	8.4	89	.08	.03	.43	.05	.05	7.7	263			0.5	15		270	3,700
12-14-70				.04	>.00	.55	.55	.52	11.4	243				25		570	3,700

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Cleveland-Crown																	
1-6-70	1.9	12.9	94	.08	>.00	.19	.36	.10	9.2	194	182	12			130	20	1,800
1-27-70	1.9	13.6	99	>.03	<.01	.25	.27	.12	9.0	194	174	20			52	26	33
2-2-70	0.7	14.2	100	<.06	<.05	.40	.27	.30	13.5	190	146	44			180	8	48
2-16-70	0.5	14.6	103	>.04	<.03	.45	.19	.13	11.2	181	175	6			2	<2	46
3-2-70	0.5	14.5	102	>.04	>.02	.84	.44	.35	10.3	250	202	48			160	<6	64
6-9-70	17.5	7.6	79	.14	.05	.13	.03	.35	8.5	389			1.8	10	480	18	370
7-6-70	21.0	7.5	83	.04	<.01	.34	.18	.27	11.7	329			1.0	9	510	<2	300
9-2-70	21.5	8.5	95	>.00	.00	.20	.04	.00	13.2	249			0.8	4	570	<2	240
12-15-70				.08	.0%	.59	.19	.38	13.7	271				40		810	2,700
Cleveland-Division																	
1-6-70	0.5	13.2	93	<.05	.00	.50	.32	.09	12.7	188	179	8			84	<4	45
1-27-70	0.5	13.9	98	>.02	>.00	.51	.09	.12	11.7	206	176	30			150	6	12
2-2-70	1.0	14.2	101	>.04	.03	.39	.06	.10	14.9	163	157	6			90	23	32
2-16-70	0.0	14.4	100	>.02	<.02	1.12	.16	.19	16.4	189	187	2			12	<2	20
3-2-70	0.0	14.4	100	.05	<.02	.16	.27	.25	11.7	242	218	24			210	10	4,300
3-17-70	0.0	14.4	100	.03	>.00	.57	.08	.21	>9.8	228	222	6			8	<2	14
6-9-70	18.0	8.5	89	.06	.01	.08	.10	.32	8.9	376			1.1	4	130	8	120
7-6-70	20.5	7.1	78	.04	.01	.09	.05	.09	12.6	354			0.3	2	40	<2	2,000
8-5-70	24.0	7.8	91	.02	.01	.48	.02	.12	12.4	232			0.7	1	2,000	<2	180
8-31-70	22.5	7.3	83	.04	<.01	1.46	.18	.07	20.8	242			0.5	3			
12-15-70				.01	.00	0.08	.32	.28	12.8	220				30		30	700

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Cleveland-Baldwin																	
1-6-70	0.1	13.0	90	>.03	>.00	.30	.08	.09	11.4	196	175	21			210	<4	40
1-27-70	0.5	13.7	96	>.04	>.00	.44	.28	.13	8.6	201	172	29			120	6	29
2-2-70	0.0	14.3	99	<.03	>.02	.45	.05	.12	13.9	164	159	5			<3	<2	30
2-16-70	0.0	14.4	100	>.03	<.03	.66	.12	.13	15.3	197	184	13			4	<2	10
3-2-70	0.0	14.9	103	<.04	<.01	.48	.06	.18	>8.2	229	206	23			4	<2	38
3-17-70	0.0	14.5	100	>.01	<.01	.50	.03	.20	12.7	206	204	2			<2	<2	15
6-9-70	18.0	8.9	93	.04	>.00	.22	.04	.38	12.3	353			1.6	3	120	12	80
7-6-70	20.5	7.5	82	.02	.01	.20	.12	.12	16.9	352			0.9	2	250	<2	43,000
8-5-70	24.0	7.6	88	.03	.01	.43	.05	.16	13.1	232			0.7	2	3,700	<2	580
8-31-70	22.5	7.7	87	.04	.00	1.01	.35	.15	15.8	253			0.5	3			
12-15-70				.04	.02	.32	.10	.23	10.3	240				30		38	310
Cleveland-Nottingham																	
1-6-70	0.2	13.6	95	<.10	.00	.77	.11	.10	11.6	207	173	34			270	<4	16
1-27-70	0.2	14.1	98	.04	<.01	.63	.33	.11	8.8	304	181	123			1,200	110	290
2-2-70	1.0	14.1	100	.04	>.02	.33	.15	.26	16.4	165	155	10			110	8	52
2-16-70	0.0	14.5	100	<.03	>.00	.56	.24	.06	13.0	205	195	10			150	18	80
3-2-70	0.0	14.6	101	.04	<.02	.34	.07	.07	<7.0	229	216	13			<4	<3	34
3-17-70	0.0	14.1	98	>.03	<.01	2.36	.21	.27	10.3	231	226	5			1,100	10	125
6-9-70	18.0	7.9	82	.06	.01	.12	.12	.16	9.8	366			1.3	6	870	22	160
7-7-70	21.0	8.0	88	.06	.03	.55	.17	.11	13.1	362			0.7	3	<2	<2	100
8-4-70	24.0	8.2	95	.02	.01	.23	.09	.05	10.4	241			0.7	2	360	<2	3,400
8-31-70	21.5	8.2	91	.04	.01	.59	.19	.12	13.9	260			0.8	2			
10-1-70	19.0	8.1	86	.03	.03	1.02	.02	.08	17.7	230			0.2	6		<2	210
12-15-70				.08	.04	.26	.50	.18	8.2	235				20		<2	42

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Eastlake																	
1-7-70	0.0	13.1	91	>.06	.00	.12	.44	.11	9.0	196	188	8			150	16	<300
1-28-70	0.0	13.7	95	>.04	.01	.56	.24	.64	17.9	321	181	140			570	96	72
2-4-70	0.0	13.3	92	<.11	<.05	.53	.43	.22	15.2	252	245	7			11,000	1,300	2,000
2-16-70	0.8	13.7	97	<.05	<.03	.70	.12	.29	10.6	213	208	5			1,400	120	300
3-4-70	2.0	13.8	101	<.05	<.02	.35	.37	.28	12.1	220	202	18					
6-9-70	21.0	9.3	103	.13	.01	.39	.07	.34	18.1	374			0.9	8	1,200	68	1,500
7-7-70	23.0	9.2	105	.06	.00	.33	.33	.20	14.7	391			0.6	10	470	25	340
8-4-70	23.5	7.2	83	.06	.01	.47	.31	.11	17.5	281			0.7	40	1,500	36	8,000
9-1-70	21.0	6.3	69	.04	.04	.45	.03	.00	16.5	236			0.3	10	900	2	9,600
12-16-70				.01	.00	1.07	.61	.29	11.9	237				35		850	1,300
Mentor																	
1-7-70	0.0	12.0	83	.06	>.00	1.08	.16	.18	13.7	203	175	28			270	28	140
1-28-70	0.0	13.8	96	>.22	>.00	.64	.26	.77	19.5	309	193	116			6,600	2,000	450
2-4-70	0.0	13.6	94	<.04	>.02	.55	.30	.14	19.8	347	229	118			2,000	60	570
2-18-70	0.0	13.9	96	<.05	<.04	.76	.32	.29	12.6	235	207	28			95	8	110
3-4-70	2.0	14.1	103	.06	>.01	.57	.63	.25	13.2	247	202	45			1,000	130	120
6-9-70	19.5	9.1	98	.08	.01	.33	.09	.25	16.6	373			0.7	8	12,000	450	1,400
7-7-70	23.0	7.1	81	.10	.01	.30	.18	.17	14.0	333			0.6	6	200	4	1,400
8-4-70	23.0	6.5	74	.05	.01	.45	.35	.08	14.3	253			0.8	20		40	30,000
9-1-70	20.5	7.3	80	.05	.01	.25	.07	.01	10.6	313			0.3	7	190	14	800
10-1-70	17.0	8.6	88	.05	.02	.42	.00	.15	7.2	226			0.3	15		190	1,300
12-16-70				.06	>.00	.20	.36	.30	9.6	236				35		1,200	1,100

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Painesville																	
1-7-70	0.0	11.8	82	>.07	.00		.15	.15	6.7	244		51			300	48	290
1-28-70	0.0	14.6	101	>.03	>.00	.80	.12	.28	18.7	292	195	97			<2	<2	4
2-4-70	0.0	13.9	96	<.10	<.04	1.14	.39	.25	23.2	275	273	2			880	34	760
2-18-70	0.0	14.2	98	>.04	<.02	.58	.28	.39	14.5	240	226	14			12	4	50
3-4-70	3.0	14.1	106	>.05	>.01	.60	.57	.25	17.5	235	211	24			780	20	210
6-9-70	19.2	8.8	94	.06	.00	.14	.06	.25	11.9	422			0.9	7	3,100	75	320
7-7-70	22.0	7.3	82	.55	.41	.27	.13	.30	14.0	360			0.4	4	60	2	38
8-4-70	24.0	6.4	74	.04	.01	.43	.27	.06	11.5	504			0.7	10	2,600	38	8,300
9-1-70	20.5	6.9	75	.02	>.00	.26	.16	.03	13.5	401			0.3	4	300	8	2,700
10-1-70	17.5	8.7	90	.03	.01	.27	.07	.08	7.9	248			0.3	9		12	5,900
12-16-70				.07	.03	.56	.98	.52	31.5	318				60		2,400	1,500
Madison																	
1-7-70	0.0	11.8	82	>.03	<.01	.96	.22	.19	9.8	285	240	45			16	4	50
1-28-70	0.0	14.0	97	<.02	.00	.67	.40	.19	16.4	332	209	123			<2	<2	22
2-4-70	0.0	14.4	100	<.08	<.04	.39	.09	.15	18.5	258	257	1			90	2	80
2-18-70	0.0	15.0	104	>.03	<.03	.63	.51	.19	14.3	234	227	7			<2	<2	24
3-4-70	1.6	14.8	107	>.04	>.01	.30	.23	.14	12.1	254	205	49			<2	<2	10
6-9-70	17.1	9.3	95	.05	>.00	.24	.05	.23	14.1	433			0.6	8	24	<4	30
7-7-70	22.5	7.3	83	.09	.04	.31	.23	.25	18.5	418			0.5	8	<2	<2	9,500
8-4-70	22.5	7.0	79	.04	.01	.54	.10	.03	17.3	258			0.7	25	840	<10	7,300
9-1-70	20.0	7.8	84	.04	.00	.30	.00	.01	14.3	273			0.4	10	200	5	700
10-1-70	17.5	8.4	87	.04	.02	.47	.09	.14	9.7	290			0.1	7		<2	840
12-16-70				>.00	>.00	.28	.85	1.16	11.6	250				30		290	2,700

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coli. org/100 ml	Fec. Coli. org/100ml	35°C SPC org/100 ml
Ashtabula																	
1-7-70	0.0	11.8	82	.02	>.00	.59	.26	.12	9.6	228	200	28			200	12	80
1-28-70	0.0	14.1	98	.04	>.01	.66	.42	.14	10.5	321	193	128			<2	<2	2
2-4-70	0.0	13.8	95	>.06	<.04	.57	.12	.18	12.2	262	248	14			<2	<2	80
2-18-70	0.0	13.9	96		.57	.08	.21	.21	12.4						34	4	90
3-4-70	1.5	14.5	105	>.02	>.01	.70	.42	.14	10.7	212	193	19			<2	<2	26
6-9-70	10.8	8.8	79	.02	.01	.21	.07	.14	10.6	360			0.8	9	80	<2	20
7-7-70	22.5	7.3	83	.06	>.00	.20	.10	.30	14.7	357			0.6	10	20	2	260
8-4-70	23.5	6.8	78	.03	.01	.52	.26	.06	10.6	271			0.7	20	3,900	510	3,000
9-1-70	20.0	8.0	87	.02	.00	.21	.03	.00	11.3	243			0.5	8	200	<5	3,800
10-1-70	18.0	8.5	89	.04	.02	.30	.00	.07	6.8	260			0.2	7		<2	450
12-16-70				.02	>.00	.36	.10	.36	6.8	264				35		100	480
Conneaut																	
1-7-70	0.0	11.7	81	>.03	>.00		.08	.15	11.6	229	210	19			80	36	80
1-27-70	0.0	14.4	100	>.03	>.00	.65	.22	.13	9.9	338	200	138			470	190	32
2-3-70	0.0	14.2	98	<.06	<.03	.16	.29	.15	10.7	216	225	0			80	14	22
2-17-70	0.0	13.4	93	>.03	<.02	.59	.06	.19	10.6	205	189	16			480	136	84
3-3-70	0.0	15.2	105	<.01	>.01	.48	.09	.12	10.9	196	193	3			4	2	12
6-9-70	15.0	8.9	88	.03	.02	.18	.02	.22	7.7	382			0.5	4	16	<2	<10
7-7-70	22.5	7.5	85	.05	.01	.27	.11	.32	14.0	416			0.6	3	<2	<2	70
8-4-70	23.0	7.5	86	.03	.01	.39	.15	.03	10.8	249			0.6	15	<2	<2	1,400
9-1-70	20.5	7.6	83	.02	.00	.19	.03	.01	13.0	258			0.6	8	230	2	270
10-1-70	18.0	8.4	88	.02	.01	.25	.01	.03	6.6	268			0.3	6		20	310
12-16-70				.03	.00	.89	.47	.36	9.6	234				35		140	1,700

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Erie																	
1-6-70	1.0	13.8	98	≥01	>.00	.34	.02	.09	10.8	189	173	16			140	<4	150
1-27-70	1.0	13.6	97	>01	>.00	.28	.19	.03	9.6	200	167	33			4	<2	36
2-3-70	0.0	12.4	86	>>02	>.01	.31	.07	.10	10.9	208	214	0			<2	<2	10
2-17-70	1.0	13.2	94	.02	<.02	.61	.04	.20	11.4	210	197	13			2	<2	14
3-3-70	0.0	15.0	104	>>01	>.01	.32	.07	.09	12.7	197	193	1			<2	<2	14
3-17-70	0.0	12.6	87	<.01	<.01	.35	.07	.11	12.7	215	205	10			<2	<2	68
3-31-70	0.0	12.8	89	>.01	<.01	.45	.05	.14	11.7	214	174	40			<2	<2	14
4-15-70				>.04	<.01	.49	.13	.22	11.1	222	194	28			<2	<2	26
4-28-70	6.0	12.2	99	>.02	<.01	.16	.18	.29	>9.0	199	186	13			<2	<2	27
5-11-70				<.05	<.02	.35	.14	.38	10.5	205	199	6			<2	<2	46
5-26-70	16.0	10.0	101	.03	<.02	.65	.00	.21	11.4	205	206	0		3	18	<2	18
6-9-70	12.0	9.6	88	.02	>.00	.17	.03	.10	8.9	353			0.2	1	8	2	12
6-23-70	18.5	8.3	87	.03	>.00	.13	.03	.12	10.8	334			0.4	4	8	<2	200
7-7-70	20.0	7.7	83	.05	.03	.21	.11	.24	15.1	340			0.[illegible]	7	<2	2	130
7-21-70	21.5	7.2	80	.05	.03	.92	.12	.24	18.7	417			1.3	45		4	
8-6-70	24.0	7.3	85	.05	.01	.26	.12	.06	12.4	259			1.0	3	22	<2	170
8-25-70				.02	.00	.51	.03	.02	15.7	222			0.8	3			
9-1-70	22.0	7.8	88	.01	.00	.28	.04	.02	11.7	292			0.6	3	760	<2	78
9-16-70	21.1	8.0	88	.06	.02	.15	.05	.01	11.7	266			0.5	15	40	2	790
9-30-70	18.7	8.3	88	.02	.01			.02	10.0	222			0.2	4		<2	32,000
12-15-70	6.7	14.0	114	.01	.00	1.38	.18	.23	9.1	205				25		4	230

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Dunkirk																	
1-6-70	0.0	14.0	97	<.08	>.00	.27	.09	.08	12.9	198	192	6			12	<4	36
1-27-70	0.0	14.3	99	<.10	<.01	.37	.19	.07	13.3	203	178	25			4	<2	3
2-3-70	1.0	14.0	100	<.02	<.02	.56	.07	.12	15.2	227	210	17			54	2	16
2-17-70	0.0	13.6	94	<.03	<.02	.85	.28	.18	13.2	207	187	20			34	4	18
3-3-70	0.0	13.2	99	<.01	<.01	.31	.06	.14	12.3	209	191	18			8	2	26
3-17-70	0.0	13.9	96	.01	<.01	.47	.08	.10	13.9	234	220	14			12	2	18
3-31-70	0.0	13.8	96	>1.14	<.92	.43	.04	.14	11.9	221	215	6			38	10	16
4-15-70				>>.01	>.00	.48	.04	.12	13.1	226	197	29			<2	<2	10
4-28-70	5.0	13.0	103	<.05	>.02	.40	.44	.18	13.5	214	191	23			<2	<2	130
5-11-70				<.05	<.04	.71	.41	.31	19.4	212	210	2					
5-26-70	10.1	12.0	107	<.03	.01	.45	.23	.27	13.7	222	183	59			<2	<<2	32
6-9-70	15.0	11.4	112	.01	.00	.13	.40	.65	8.5	406			0.3	2	2	<<2	80
6-23-70	17.5	7.9	82	.02	.00	.62	.02	.07	13.1	321			0.3	4	4	<<2	22
7-7-70	20.0	8.3	90	.01	<.01	.23	.07	.10	13.5	358			0.6	4	<2	<<2	310
7-21-70	20.5	7.7	84	.04	<.01	.41	.27	.20	17.0	393			0.6	9		8	
8-6-70	22.0	7.3	82	.02	.01	.22	.10	.06	10.8	251			0.4	1	1,900	< 2	220
8-25-70	23.0	7.7	88	.01	.0	.16	.40	.01	11.3	200			0.4	2			
9-1-70	22.0	8.0	90	.01	.01	.15	.03	.01	10.9	264			0.5	3	2,100	50	240
9-10-70	18.9	8.2	87	.04	.02	.36	.10	.06	11.3	256			0.5	3	900	28	2,100
9-30-70	17.7	8.2	85	.02	.01	.24	.06		6.3	222			0.2	8		4	2,400
12-15-70	3.0	14.0	104	.00	.00	.39	.23	.20	6.8	241				25		<2	610
Sturgeon Pt.																	
1-6-70	0.0	14.1	98	.01	.00	.43	.15	.14	12.9	206	194	12			72	<4	100
1-27-70	0.5	14.3	101	<.02	<.01	.14	.28	.13	10.5	204	179	25			<2	<2	2
2-3-70	0.0	14.1	98	<.02	<.01	.48	.17	.11	12.8	208	201	7			<3	<3	11
2-17-70	0.0	13.8	96	.02	<.01	.74	.28	.16	13.9	205	180	25			16	<2	34
3-3-70	0.0	13.5	94	<.01	<.01	.29	.23	.22	11.9	208	206	2			4	<4	20

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Sturgeon Pt.(Cont'd)																	
3-17-70	0.0	14.0	97	>.01	.01	.49	.05	.15	11.7	219	213	6			8	<2	4
3-31-70	0.0	13.9	96	.05	<.03	.53	.08	.16	10.7	231	198	33			15	4	20
4-15-70				>.03	.01	.11	.31	.13	11.3	211	185	26			<2	<2	12
4-28-70	5.0	13.2	105	<.04	<.01	.20	.32	.16	>9.8	216	172	44			<10	<5	15
5-11-70				<.05	>.04	.32	.28	.25	15.2	210	206	4			70	<2	48
5-26-70	10.0	12.1	108	<.02	>.01	.48	.02	.13	11.2	210	168	42			74	2	36
6-9-70	15.0	11.1	109	.02	.00	.38	.04	.09	13.9	345			0.2		<2	<2	4
6-23-70	17.5	8.7	90	.02	.01	.57	.03	.04	11.7	340			0.3	4	<2	<2	30
7-7-70	19.5	8.7	93	.02	.01	.43	.07	.03	14.0	371			0.3	5	<2	<2	48
7-21-70	19.5	8.2	88	.03	<.01	.60	.04	.08	15.2	441			0.7	30		28	
8-6-70	22.0	7.1	80	.02	.02	.34	.04	.04	11.8	209			0.5	6	72	<2	110
8-25-70	22.5	8.3	94	.02	.00	.27	.07	.05	15.7	211			0.5	3			
9-1-70	22.0	8.4	94	.05	.04	.91	.25	.06	19.1	257			0.4	4	2	<2	30
9-16-70	18.9	8.4	89	.03	.01	.39	.05	.02	11.3	231			0.3	2	390	<2	220
9-30-70	17.7	8.4	87	.02	.01	.47	.07	.04	10.4	210			0.2	8		4	490
12-15-70	6.7	12.8	105	.01	.00	.74	.12	.12	9.1	225				20		4	420
Woodlawn																	
1-6-70	0.0	13.8	96	>.01	.00	.22	.38	.09	9.6	206	196	10			88	4	140
1-27-70	0.0	11.2	78	>.04	.01	.13	.33	.08	9.9	207	178	29			<2	<2	56
2-3-70		11.7		<.02	>.00	.28	.13	.11	13.1	216	213	3			110	20	68
2-17-70	0.0	11.4	79	>.02	.02	.33	.09	.14	12.0	201	181	20			32	8	76
3-3-70	0.0	11.6	80	<.01	>.00	<.01	.21	.17	>9.0	214	212	2			28	6	10
3-17-70	0.0	12.0	83	<.01	<.01	.66	.20	.17	>9.2	219	209	10			52	8	80
3-31-70	0.0	13.2	91	>.03	<.01	.37	.03	.18	>8.8	204	202	2			48	18	50
4-15-70				.02	<.01	.20	.03	.18	>9.4	192	179	13			4	4	14
4-28-70	5.0	11.2	89	>.05	>.00	.44	.08	.16	10.0	218	195	23			4	4	18
5-11-70				.02	.01	.44	.00	.19	12.4	203	204	0			6	<2	22

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Woodlawn (Cont'd)																	
5-26-70	9.8	11.5	101	>.05	<.01	.56	.06	.13	15.6	201	169	32		32	<2	<2	6
6-9-70	16.0	8.9	89	.03	.00	.18	.06	.05	8.5	331			0.3	2	16	2	48
6-23-70	17.5	7.6	79	.02	>.00	.57	.01	.02	13.9	344			0.3	15	12	<2	94
7-7-70	20.0	8.2	89	.01	.00	.34	.12	.04	15.0	397			0.4	5	<2	<2	40
7-21-70	19.0	7.2	77	.04	.00	.77	.09	.11	20.9	384			1.0	35		20	
8-5-70	24.0	8.1	94	.05	>.00	.57	.03	.00	13.8	222			0.5	15	10	<2	410
8-25-70	22.0	7.7	86	.02	.00			.02	10.4	191			0.7	3			
9-1-70	22.5	7.6	86	.01	.01	.07	.03	.00	9.8	246			1.6	0.4	<2	<2	10
9-16-70	18.9	8.4	89	.02	.01	.34	.10	.01	9.6	229			0.9	5	2,000	6	3,400
9-30-70	18.0	7.5	78	.03	>.00	.26	.00	.01	10.0	202			0.5	8		220	1,500
12-15-70	6.7	11.7	96	.00	.00	.10	.10	.11	9.1	230				25		160	1,500
Buffalo																	
1-6-70	0.0	14.0	97	>.01	>.00	.70	.16	.04	11.4	191	182	9			52	<4	46
1-27-70	0.0	13.9	96	<.02	.00	.28	.19	.04	5.8	205	195	10			<4	<2	40
2-3-70	0.0	13.9	96	>.01	<.01	.64	.10	.09	12.4	215	209	6			<3	<3	52
2-17-70	0.0	13.9	96					.12	11.2	204	200	4			2	<2	14
3-3-70	0.0	13.5	94	>.01	.01	.24	.19	.07	10.7	211	208	3			<2	<2	8
3-17-70	0.0	14.0	97	<.01	>.00	.49	.07	.06	>9.2	221	207	14			<3	<2	6
3-31-70	[illegible]	14.1	98	<.01	<.01	.44	.12	.06	>9.8	207	203	4			<2	<2	10
4-15-70				<.01	>.00	.48	.08	.08	11.9	211	185	26			<2	<2	1
4-28-70	1.0	13.8	98	.02	<.01	.26	.14	.07	11.7	191	191	0			<10	<5	5
5-11-70				.04	<.03	.85	.18	.15	17.9	213	213	0			10	<2	28
5-26-70	10.0	12.5	110	<.04	.01	.36	.04	.10	11.8	197	155	42			<2	<2	10
6-9-70	15.2	9.1	90	.03	.00	.35	.05	.05	13.5	355			0.4	2	<2	<2	10
6-23-70	16.5	9.5	96	.01	>.00	.38	.00	.02	15.7	310			0.8	3	58	<2	160
7-7-70	19.0	8.6	91	.03	.01	.20	.10	.04	16.7	341			0.4	2	<2	<2	42

TABLE 5 (Concluded)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org.N	NH_3N	NO_3N	COD	TS	TDS	TSS	DS	TB	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Buffalo (Cont'd)																	
7-15-70	19.4	12.5	134	>.00	>.00	.52	.32	.10	12.3	210				15		<2	180
7-21-70	19.5	8.0	86	,03	>.00	.37	.05	.05	13.9	328			0.4	10		4	
8-5-70	24.0	8.1	94	.01	.01	.37	.03	.01	10.1	211			0.4	40	440	>2	290
8-25-70	21.0	7.8	86	.02	.00	.00	.13	.01	8.3	226			0.5	2			
9-1-70	20.5	8.4	92	.01	.00	.67	.07	.04	18.2	266			0.5	2	60	<2	62
9-16-70	18.3	8.3	87	.03	.02	.42	.10	.02	12.6	235			0.6	2	240	<2	290
9-30-70	17.5	8.6	89	.02		.62	.04	.01	9.1	219			0.4	5		<2	13,000

TABLE 6

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES *
mg/l

		CN	Ag	Cr	Cd	As	Pb	F	Be	Sb
Erie	J-4108									
2-4-70		0	<0.10	0	0	0	0	0.10	0	0
3-20-70		0	<0.20	0	0	0	0	0.12	0	0
4-21-70		0	<0.05	0	0	0	0.007	0.10	0	0
6-16-70		0	0	0	0.02	0	0.004	0.10	0	0
8-12-70		0	0	0	0	0	0.001	0.10		0

* Only Heavy Metals data available for 1970

TABLE 7

WATER INTAKE STUDY

PLANKTON

Toledo - E0301

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml
1-5-70	3,426	258	37	-	-	-	-	-	3,721
1-26-70	829	55	220	-	-	-	92	18	1,214
2-2-70	442	25	147	-	-	-	49	-	663
2-16-70	362	29	72	-	-	-	115	-	578
6-8-70	74	-	652	12	25	37	12	12	824
7-6-70	210	-	553	-	-	49	222	-	1,034
8-3-70	185	28	202	-	37	27	92	-	571
8-31-70	332	-	36	-	18	3,141	55	-	3,582
9-28-70	707	11	77	-	-	65	11	-	871
12-14-70	304	72	100	-	-	-	-	14	490

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Port Clinton - C0704

Date	DIATOMS Centric	Pennate	GREEN Coccoid	Filamentous	BLUE-GREEN Coccoid	Filamentous	FLAGELLATES Green	Other	Total No./Ml
1-5-70	3,500	295	74	-	-	-	37	37	3,943
1-26-70	540	11	11	-	-	-	-	-	562
2-2-70	530	91	128	-	-	-	55	-	804
2-16-70	331	37	25	-	-	-	24	-	417
6-8-70	87	14	419	-	43	-	14	-	577
7-6-70	72	14	360	-	-	-	129	-	575
8-3-70	123	-	233	25	148	49	111	-	689
8-31-70	813	12	86	12	-	12,468	172	-	13,563
9-28-70	536	43	85	14	-	188	101	-	967
12-14-70	304	130	131	-	-	-	43	22	630

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Sandusky - B1101

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml
1-5-70	410	22	76	-	-	-	-	-	508
1-26-70	389	58	101	-	-	-	-	-	548
2-2-70	497	173	151	22	-	22	-	22	887
2-16-70	3,564	435	-	-	-	-	-	174	4,173
6-8-70	64	-	175	-	28	-	-	-	267
7-6-70	388	-	164	-	-	1,534	18	18	2,122
8-3-70	222	12	111	-	12	160	24	-	541
8-31-70	314	166	164	-	74	517	92	18	1,345
9-28-70	246	43	100	-	-	130	-	14	533
12-14-70	206	11	55	11	-	-	11	-	294

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Huron - A1204

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml
1-5-70	197	25	110	-	-	-	-	25	357
1-26-70	467	37	148	12	-	-	25	12	701
2-2-70	479	184	18	-	-	-	-	37	718
2-16-70	3,205	368	185	-	-	-	37	111	3,906
6-8-70	-	9	258	18	28	18	46	-	377
7-6-70	18	18	54	18	18	1,201	-	-	1,327
8-3-70	217	65	44	-	-	783	22	109	1,240
8-31-70	239	174	196	-	43	87	43	22	804
9-28-70	145	-	72	-	-	-	43	14	274
12-14-70	166	55	119	-	-	46	37	9	432

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Vermilion - BI404

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml
1-5-70	245	25	208	-	-	-	-	25	503
1-26-70	1,555	216	172	-	43	-	-	-	1,986
2-2-70	423	221	-	-	-	-	36	18	698
2-17-70	295	147	49	-	-	-	-	12	503
6-8-70	46	-	100	-	65	-	-	-	211
7-6-70	111	18	91	-	28	563	55	-	866
8-3-70	92	55	36	-	18	1,607	18	-	1,826
8-31-70	92	111	275	37	37	111	295	55	913
9-28-70	326	22	205	-	-	-	98	22	673
12-14-70	147	28	45	-	18	37	46	-	321

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Elyria - Bi606

Date	DIATOMS Centric	Pennate	GREEN Coccoid	Filamentous	BLUE-GREEN Coccoid	Filamentous	FLAGELLATES Green	Other	Total No./Ml
1-6-70	302	-	129	-	-	29	-	14	474
1-27-70	681	37	91	-	-	-	-	-	809
2-3-70	584	389	152	-	-	-	44	65	1,234
2-17-70	356	111	12	-	-	-	-	-	479
6-9 70	129	-	175	-	-	-	28	-	332
7-6-70	92	18	156	-	46	305	65	9	691
8-3-70	28	37	82	9	9	28	9	18	220
8-31-70	74	102	110	18	83	74	65	9	535
9-28-70	203	87	244	-	29	14	14	-	591
12-14-70	259	37	63	-	-	9	37	-	405

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Lorain - BI605

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml
1-6-70	249	65	174	-	-	22	11	-	521
1-27-70	1,363	74	202	-	-	-	-	37	1,676
2-3-70	950	648	259	-	-	43	-	43	1,943
2-17-70	543	109	175	-	-	-	-	-	827
6-9-70	74	-	46	-	28	-	18	-	166
7-6-70	246	37	147	12	25	136	74	-	677
8-3-70	72	87	57	14	-	913	14	43	1,200
8-31-70	64	120	156	-	74	73	92	-	579
9-28-70	435	33	208	-	-	11	33	11	731
12-14-70	361	55	90	-	18	-	46	-	570

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Avon Lake - C180

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./M.
1-6-70	374	58	-	-	-	-	-	-	432
1-27-70	369	61	49	-	-	-	37	25	541
2-3-70	516	135	171	-	-	-	-	-	822
2-17-70	306	86	37	-	-	-	12	-	441
6-9-70	18	-	110	-	-	-	-	-	128
7-6-70	9	-	55	-	-	18	18	-	100
8-5-70	9	-	27	18	9	74	9	-	146
8-31-70	49	148	358	-	123	49	136	-	863
9-28-70	141	43	174	-	-	-	44	-	402
12-14-70	175	46	36	18	9	-	27	-	311

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Crown - C2001

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml
1-6-70	375	43	99	-	-	-	-	14	531
1-27-70	1,814	173	475	-	-	43	43	-	2,548
2-2-70	332	111	74	-	-	-	49	-	798
2-16-70	1,068	74	165	-	-	-	-	-	1,307
6-9-70	86	29	72	-	-	-	85	-	272
7-6-70	11	11	77	11	-	22	33	-	165
9-2-70	28	9	146	9	102	-	28	9	331
12-15-70	407	46	81	-	18	-	-	-	633

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Division - C2103

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml
1-6-70	676	43	86	-	-	-	-	-	805
1-27-70	670	-	43	-	-	-	-	22	735
2-2-70	1,510	18	111	-	-	-	-	37	1,676
2-16-70	965	129	21	-	-	-	-	43	1,158
6-9-70	22	-	33	-	-	-	11	-	66
7-6-70	9	296	9	65	-	9	9	9	406
8-5-70	9	9	73	-	-	129	-	-	220
8-31-70	-	18	55	28	74	27	54	-	256
11-18-70	314	65	45	9	18	-	-	-	451

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Baldwin - C2104

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml
1-6-70	691	22	281	-	-	22	-	43	1,059
1-27-70	843	65	108	-	-	-	-	22	1,038
2-2-70	737	18	258	-	-	-	18	-	1,031
2-16-70	2,833	86	258	-	-	-	43	43	3,263
6-9-70	33	-	77	-	-	-	22	-	132
7-6-70	37	37	9	27	-	-	-	27	137
8-5-70	18	9	36	9	28	304	-	-	404
8-31-70	-	37	118	-	46	-	28	-	229
11-15-70	342	89	165	15	-	-	15	-	626

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Nottingham - D2301

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml
1-6-70	147	12	60	-	-	-	12	25	256
1-27-70	294	25	123	-	12	-	12	25	491
2-2-70	1,455	18	166	-	-	-	-	-	1,639
2-16-70	3,992	-	129	-	-	-	-	-	4,121
6-9-70	22	-	33	-	-	-	-	-	55
7-7-70	22	54	33	65	-	-	11	-	185
8-4-70	18	9	64	-	-	18	-	9	118
8-5-70	18	9	36	9	28	304	-	-	404
8-31-70	11	43	121	11	-	11	-	-	197
10-1-70	139	9	45	-	18	-	-	-	211
12-15-70	432	296	146	12	12	37	12	24	971

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland Electric Illuminating Co. - E250
(Eastlake)

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml
1-7-70	110	28	128	-	-	-	-	-	266
1-28-70	903	-	221	-	-	-	18	55	1,197
2-4-70	18	202	-	-	-	-	-	37	1,105
2-16-70	1,826	43	65	-	-	-	65	-	1,999
6-9-70	58	43	186	-	-	-	14	-	301
7-7-70	196	43	262	-	-	-	22	43	566
8-4-70	166	-	239	36	55	536	55	-	1,087
9-1-70	101	29	216	14	14	-	158	-	532
12-16-70	120	-	54	-	-	18	18	18	228

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Ohio Water Service-Mentor - E2601

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml
1-7-70	98	12	85	-	-	-	12	25	232
1-28-70	583	22	173	-	-	-	-	22	800
2-4-70	626	350	258	-	-	-	-	-	1,234
2-18-70	1,695	147	148	-	-	-	18	-	2,008
6-9-70	-	-	-	-	-	-	-	-	-
7-7-70	22	22	87	-	-	-	-	11	142
8-4-70	37	46	9	9	139	18	9	-	267
9-1-70	55	65	176	27	37	-	213	-	573
10-1-70	120	22	143	-	11	-	54	-	350
12-1-70	142	43	55	-	-	-	-	-	240

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Painesville - F2718

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml
1-7-70	193	18	46	-	-	-	-	55	312
1-28-70	663	18	110	-	-	-	-	73	864
2-4-70	162	22	152	-	-	-	-	22	358
2-18-70	7,810	-	221	-	-	-	74	-	8,105
6-9-70	46	-	64	18	-	-	-	-	128
7-7-70	111	18	128	-	9	-	9	-	275
8-4-70	74	18	128	18	129	887	18	-	1,272
9-1-70	28	28	82	-	37	-	74	-	249
10-1-70	33	22	121	-	33	-	44	-	253
12-16-70	157	28	27	-	-	-	-	9	221

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Ohio Water Service-Madison - G3001

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml
1-7-70	490	29	144	-	-	-	-	-	663
1-28-70	490	29	56	-	-	-	-	14	589
2-4-70	3,456	86	259	-	-	-	-	-	3,801
2-18-70	10,886	-	86	-	-	-	129	43	11,144
6-9-70	33	22	33	22	-	-	-	-	110
7-7-70	92	-	118	-	-	-	9	-	219
8-4-70	-	55	55	36	18	2,754	18	-	2,936
9-1-70	-	-	163	-	11	-	22	-	196
10-1-70	28	37	118	9	-	-	9	-	201
12-16-70	131	22	11	-	-	-	11	-	175

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

As[illegible]ula - G3303

Date	DIATOMS Centric	DIATOMS Pennate	GREEN Coccoid	GREEN Filamentous	BLUE-GREEN Coccoid	BLUE-GREEN Filamentous	FLAGELLATES Green	FLAGELLATES Other	Total No./Ml
1-28-70	1,080	-	-	-	-	-	-	-	1,080
2-4-70	677	-	29	-	-	-	-	-	706
2-18-70	1,642	43	43	-	-	-	43	86	1,857
6-9-70	-	-	27	9	-	-	-	-	36
7-7-70	46	-	54	9	9	18	18	9	163
8-4-70	25	49	48	37	-	345	-	-	504
9-1-70	44	22	196	22	11	-	33	-	328
10-1-70	37	46	63	9	9	9	45	18	236
12-16-70	131	-	66	-	-	-	22	-	219

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Conneaut - H3605

Date	DIATOMS Centric	Pennate	GREEN Coccoid	Filamentous	BLUE-GREEN Coccoid	Filamentous	FLAGELLATES Green	Other	Total No./Ml
1-7-70	314	9	92	-	-	-	-	-	415
1-27-70	2,333	-	43	-	-	-	-	-	2,376
2-3-70	2,358	37	148	-	-	-	37	-	2,580
2-17-70	2,203	173	173	-	-	-	-	43	2,592
6-9-70	11	22	33	-	-	-	-	-	66
7-7-70	37	9	55	-	-	-	9	28	138
8-4-70	91	91	250	91	23	1,251	-	-	1,797
9-1-70	37	46	183	37	55	-	139	-	497
10-1-70	28	65	73	-	28	37	18	-	249
12-16-70	74	37	-	-	-	-	18	9	138

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Erie - J4108

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml
1-6-70	331	101	129	14	-	-	-	-	575
1-27-70	212	-	37	-	-	-	27	9	285
2-3-70	1,469	-	151	-	-	-	-	-	1,620
2-17-70	3,426	37	148	-	-	-	-	-	3,611
5-26-70	18	18	64	9	-	9	28	-	146
6-9-70	-	-	-	11	-	-	11	-	22
6-23-70	11	11	44	22	-	11	11	-	110
7-7-70	92	139	175	212	18	9	9	18	672
7-21-70	239	109	175	500	-	-	-	-	1,023
8-6-70	-	-	72	-	18	-	-	-	90
8-25-70	46	18	193	27	83	129	55	18	569
9-1-70	9	18	101	9	37	65	37	-	276
9-16-70	27	83	83	-	-	9	18	18	238
9-30-70	-	111	9	18	-	-	25	-	163
12-15-70	665	628	202	-	37	-	18	18	1,568

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Dunkirk - N5001

Date	DIATOMS Centric	Pennate	GREEN Coccoid	Filamentous	BLUE-GREEN Coccoid	Filamentous	FLAGELLATES Green	Other	Total No./Ml.
1-6-70	396	37	192	-	-	-	9	-	634
1-27-70	313	-	108	-	-	-	-	11	432
2-3-70	619	-	43	-	-	-	-	-	662
2-17-70	230	-	64	-	-	-	-	-	294
5-26-70	33	11	11	-	-	-	-	-	55
6-9-70	54	22	22	54	-	-	-	22	174
6-23-70	-	-	18	9	-	-	-	-	27
7-7-70	22	11	96	65	-	-	11	-	205
7-21-70	28	65	101	65	-	9	-	28	296
8-6-70	-	-	73	-	18	9	9	-	109
8-25-70	46	-	157	-	102	-	9	-	314
9-1-70	22	-	142	-	43	22	33	-	262
9-16-70	-	11	76	-	-	-	22	11	120
9-30-70	14	87	157	-	14	-	101	-	373
12-15-70	166	37	81	9	27	-	9	-	329

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Sturgeon Point - 05401

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml
1-6-70	939	74	91	-	-	-	-	-	1,104
1-27-70	46	-	18	-	-	-	36	-	100
2-3-70	157	-	27	-	-	-	9	-	193
2-17-70	46	-	18	-	-	-	9	-	73
5-26-70	27	37	9	28	-	18	-	-	119
6-9-70	22	11	33	11	-	-	-	22	99
6-23-70	-	-	11	-	-	11	11	-	33
7-7-70	-	18	46	18	9	-	9	9	109
7-21-70	28	102	63	139	18	65	-	18	433
8-6-70	9	-	73	27	46	46	-	-	201
8-25-70	-	-	128	-	102	129	9	-	368
9-1-70	9	37	82	-	65	-	27	-	220
9-16-70	18	-	45	-	-	-	9	18	90
9-30-70	9	83	27	9	-	-	-	9	137
12-15-70	109	22	55	-	-	-	11	-	197

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Woodlawn - R5601

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	No./Ml
1-6-70	518	29	14	-	-	-	-	-	561
1-27-70	119	-	32	-	-	-	-	-	151
2-3-70	173	-	76	-	-	-	11	11	271
2-17-70	55	-	28	-	-	-	9	9	101
5-26-70	29	-	42	29	-	-	14	14	128
6-9-70	11	11	11	11	-	-	22	-	66
6-23-70	33	-	22	11	-	-	-	-	66
7-7-70	-	-	64	9	83	-	9	-	165
7-21-70	49	283	197	209	-	-	-	25	763
8-5-70	25	12	147	74	-	1,330	-	-	1,588
8-25-70	83	55	211	-	65	9	9	-	432
9-1-70	-	-	-	-	-	-	9	-	9
9-16-70	37	9	63	-	55	-	56	-	220
9-30-70	11	-	55	33	-	-	-	33	132
12-15-70	37	18	9	-	9	-	-	-	73

TABLE 7 (Concluded)

WATER INTAKE STUDY

PLANKTON

Buffalo -S5631

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	
1-6-70	194	43	109	-	-	-	-	-	346
1-27-70	184	9	101	-	-	-	9	9	312
2-3-70	221	-	64	-	-	-	-	-	285
2-17-70	42	-	87	-	11	-	-	11	151
4-21-70	18	28	64	46	-	-	-	-	156
5-26-70	87	11	66	11	-	-	44	11	230
6-9-70	9	9	9	-	231	-	-	-	258
6-23-70	-	37	18	9	-	-	9	-	73
7-7-70	-	-	73	37	9	-	28	-	147
8-5-70	-	-	36	9	18	-	9	-	72
8-25-70	-	-	82	-	28	-	9	-	119
9-1-70	28	9	129	-	28	83	-	9	286
9-16-70	9	9	73	37	9	-	9	9	155
9-30-70	18	46	27	9	18	-	9	-	127
12-15-70	65	22	44	11	-	-	33	-	175

TABLE 8

DOMINANT PHYTOPLANKTON

Toledo - E0301

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-5-70	Cyclo-Steph	3,352	Diatoms-Pennate Unidentified	258	Melosira	74	Greens-Coccoid Unidentified	37	3,721
1-26-70	Cyclo-Steph	792	Greens-Coccoid Unidentified	111	Diatoms-Pennate Unidentified	55	Flagellates-Green Unidentified	55	1,214
2-2-70	Cyclo-Steph	442	Greens-Coccoid Unidentified	74	Ankistrodesmus	49	Phacus	25	663
2-16-70	Cyclo-Steph	362	Flagellates-Green Unidentified	72	Ankistrodesmus	58	Phacus	29	578
6-8-70	Scenedesmus	431	Cyclo-Steph	62	Schroederia	49	Tetrastrum	49	824
7-6-70	Phacotus	222	Cyclo-Steph	185	Scenedesmus	172	Oocystis	111	1,034
8-3-70	Cyclo-Steph	185	Oocystis	139	Phacotus	92	Anacystis	37	571
8-31-70	Aphanizomenon	3,123	Cyclo-Steph	314	Phacotus	55	Cosmarium	18	3,582
9-28-70	Cyclo-Steph	707	Aphanizomenon	65	Cosmarium	22	Pediastrum	22	871
12-14-70	Cyclo-Steph	261	Diatoms-Pennate Unidentified	72	Melosira	43	Scenedesmus	29	490

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Port Clinton - C0704

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-5-70	Cyclo-Steph	3,426	Diatoms-Pennate Unidentified	295	Melosira	74	Scenedesmus	37	3,943
1-26-70	Cyclo-Steph	486	Melosira	54	Diatoms-Pennate Unidentified	11	Closterium	11	562
2-2-70	Cyclo-Steph	512	Diatoms-Pennate Unidentified	91	Tetrastrum	55	Lagerheimia	37	804
2-16-70	Cyclo-Steph	319	Diatoms-Pennate Unidentified	37	Ankistrodesmus	25	Melosira	12	417
6-8-70	Scenedesmus	217	Cyclo-Steph	87	Coelastrum	72	Oocystis	58	577
7-6-70	Oocystis	145	Scenedesmus	101	Cyclo-Steph	72	Pediastrum	58	575
8-3-70	Anacystis	148	Cyclo-Steph	123	Phacotus	111	Scenedesmus	99	689
8-31-70	Aphanizomenon	12,468	Cyclo-Steph	813	Phacotus	148	Oocystis	25	13,563
9-28-70	Cyclo-Steph	536	Aphanizomenon	188	Phacotus	101	Diatoms-Pennate Unidentified	43	967
12-14-70	Cyclo-Steph	239	Diatoms-Pennate Unidentified	130	Melosira	65	Scenedesmus	65	630

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Sandusky - B1101

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-5-70	Cyclo-Steph	378	Melosira	32	Tetrastrum	32	Diatoms-Pennate Unidentified	22	508
1-26-70	Cyclo-Steph	317	Melosira	58	Diatoms-Pennate Unidentified	58	Ankistrodesmus	43	548
2-2-70	Cyclo-Steph	367	Diatoms-Pennate Unidentified	173	Melosira	130	Ankistrodesmus	43	887
2-16-70	Cyclo-Steph	3,304	Diatoms-Pennate Unidentified	435	Melosira	217	Dinobryon	174	4,173
6-8-70	Scenedesmus	65	Cyclo-Steph	55	Greens-Coccoid Unidentified	37	Anacystis	28	267
7-6-70	Aphanizomenon	1,497	Cyclo-Steph	388	Oocystis	55	Phacotus	18	2,122
8-3-70	Cyclo-Steph	222	Aphanizomenon	160	Oocystis	62	Pediastrum	25	541
8-31-70	Aphanizomenon	517	Cyclo-Steph	296	Diatoms-Pennate Unidentified	166	Anacystis	74	1,345
9-28-70	Cyclo-Steph	217	Aphanizomenon	130	Diatoms-Pennate Unidentified	43	Pediastrum	43	533
12-14-70	Cyclo-Steph	163	Melosira	43	Coelastrum	22	Tribonema	11	294

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Huron - A1204

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-5-70	Cyclo-Steph	172	Ankistrodesmus	49	Greens-Coccoid Unidentified	49	Melosira	25	357
1-26-70	Cyclo-Steph	467	Diatoms-Pennate Unidentified	37	Diatoms-Pennate Unidentified	37	Scenedesmus	25	701
2-2-70	Cyclo-Steph	479	Diatoms-Pennate Unidentified	184	Peridinium	37	Greens-Coccoid Unidentified	18	718
2-16-70	Cyclo-Steph	3,168	Diatoms-Pennate Unidentified	368	Ankistrodesmus	111	Dinobryon	111	3,906
6-8-70	Sphaerocystis	92	Scenedesmus	74	Oocystis	37	Flagellates-Green Unidentified	37	377
7-6-70	Aphanizomenon	1,183	Cyclo-Steph	18	Staurastrum	18	Anacystis	18	1,327
8-3-70	Aphanizomenon	761	Cyclo-Steph	217	Ceratium	109	Diatoms-Pennate Unidentified	65	1,240
8-31-70	Cyclo-Steph	196	Diatoms-Pennate Unidentified	174	Aphanizomenon	87	Melosira	43	804
9-28-70	Cyclo-Steph	145	Phacotus	43	Pediastrum	29	Tetraedron	29	274
12-14-70	Cyclo-Steph	157	Scenedesmus	74	Blue-Greens-Filamentous-Unidentified	28	Phacotus	28	432

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Vermilion - B1404

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-5-70	Cyclo-Steph	233	Ankistrodesmus	74	Tetrastrum	49	Greens-Coccoid Unidentified	37	503
1-26-70	Cyclo-Steph	1,469	Diatoms-Pennate Unidentified	216	Melosira	86	Dactylococcus	86	1,986
2-2-70	Cyclo-Steph	405	Diatoms-Pennate Unidentified	221	Melosira	18	Dinobryon	18	698
2-17-70	Cyclo-Steph	295	Diatoms-Pennate Unidentified	147	Greens-Coccoid Unidentified	37	Glenodinium	12	503
6-8-70	Anacystis	65	Cyclo-Steph	37	Oocystis	37	Scenedesmus	18	211
7-6-70	Aphanizomenon	554	Cyclo-Steph	111	Phacotus	55	Scenedesmus	37	866
8-3-70	Aphanizomenon	1,589	Cyclo-Steph	92	Diatoms-Pennate Unidentified	55	Coelastrum	18	1,826
8-31-70	Phacotus	203	Diatoms-Pennate Unidentified	111	Pediastrum	111	Cyclo-Steph	92	913
9-28-70	Cyclo-Steph	326	Phacotus	98	Staurastrum	54	Cosmarium	43	673
12-14-70	Cyclo-Steph	129	Phacotus	37	Diatoms-Pennate Unidentified	28	Melosira	18	321

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Elyria - B1606

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-6-70	Cyclo-Steph	259	Melosira	43	Lagerheimia	43	Ankistrodesmus	29	474
1-27-70	Cyclo-Steph	626	Melosira	55	Ankistrodesmus	55	Diatoms-Pennate Unidentified	37	809
2-3-70	Cyclo-Steph	389	Diatoms-Pennate Unidentified	389	Melosira	173	Tetraedron	43	1,234
2-17-70	Cyclo-Steph	295	Diatoms-Pennate Unidentified	111	Melosira	49	Rhizosolenia	12	479
6-9-70	Cyclo-Steph	129	Sphaerocystis	55	Scenedesmus	37	Pediastrum	28	332
7-6-70	Aphanizomenon	305	Diatoms-Pennate Unidentified	83	Phacotus	65	Oocystis	37	691
8-3-70	Diatoms-Pennate Unidentified	37	Nephrocytium	37	Cyclo-Steph	28	Aphanizomenon	28	220
8-31-70	Diatoms-Pennate Unidentified	102	Cyclo-Steph	74	Aphanizomenon	74	Anacystis	65	535
9-28-70	Cyclo-Steph	203	Diatoms-Pennate Unidentified	87	Pediastrum	87	Coelastrum	43	592
12-14-70	Cyclo-Steph	213	Melosira	46	Diatoms-Pennate Unidentified	37	Phacotus	37	405

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Lorain - B1605

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-6-70	Cyclo-Steph	227	Tetrastrum	76	Diatoms-Pennate Unidentified	65	Dactylococcus	32	521
1-27-70	Cyclo-Steph	1,325	Greens-Coccoid Unidentified	92	Diatoms-Pennate Unidentified	74	Peridinum	37	1,676
2-3-70	Diatoms-Pennate Unidentified	648	Cyclo-Steph	605	Melosira	302	Scenedesmus	173	1,943
2-17-70	Cyclo-Steph	478	Diatoms-Pennate Unidentified	109	Greens-Coccoid Unidentified	87	Melosira	43	827
6-9-70	Cyclo-Steph	74	Scenedesmus	37	Anacystis	28	Phacotus	18	166
7-6-70	Cyclo-Steph	246	Aphanizomenon	136	Oocystis	86	Phacotus	49	677
8-3-70	Aphanizomenon	884	Diatoms-Pennate Unidentified	87	Cyclo-Steph	72	Staurastrum	43	1,200
8-31-70	Diatoms-Pennate	120	Phacotus	92	Oocystis	74	Anacystis	65	579
9-28-70	Cyclo-Steph	435	Pediastrum	76	Diatoms-Pennate Unidentified	33	Oocystis	22	731
12-14-70	Cyclo-Steph	333	Diatoms-Pennate Unidentified	55	Trachelomonas	37	Melosira	28	570

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Avon Lake - C1801

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-6-70	Cyclo-Steph	374	Diatoms-Pennate Unidentified	58	Tetrastrum	58	Planktosphaeria	43	432
1-27-70	Cyclo-Steph	344	Diatoms-Pennate Unidentified	61	Tetrastrum	49	Melosira	25	541
2-3-70	Cyclo-Steph	381	Diatoms-Pennate Unidentified	135	Melosira	123	Ankistrodesmus	49	822
2-17-70	Cyclo-Steph	196	Melosira	98	Diatoms-Pennate Unidentified	86	Ankistrodesmus	25	441
6-9-70	Sphaerocystis	37	Scenedesmus	28	Cyclo-Steph	18	Oocystis	18	128
7-6-70	Oocystis	37	Oscillatoria	18	Phacotus	18	Scenedesmus	9	100
8-5-70	Aphanizomenon	74	Oocystis	18	Oedogonium	18	Cyclo-Steph	9	146
8-31-70	Diatoms-Centric Unidentified	148	Phacotus	136	Anacystis	123	Staurastrum	111	863
9-28-70	Cyclo-Steph	141	Diatoms-Pennate Unidentified	43	Oocystis	43	Staurastrum	43	402
12-14-70	Cyclo-Steph	157	Diatoms-Pennate Unidentified	46	Melosira	18	Trachelomonas	18	311

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Cleveland-Crown - C2001

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-6-70	Cyclo-Steph	346	Diatoms-Pennate Unidentified	43	Melosira	29	Scenedesmus	29	531
1-27-70	Cyclo-Steph	1,771	Dactylococcus	216	Diatoms-Pennate Unidentified	173	Greens-Coccoid Unidentified	173	2,548
2-2-70	Cyclo-Steph	282	Diatoms-Pennate Unidentified	111	Flagellates-Green Unidentified	37	Melosira	25	798
2-16-70	Cyclo-Steph	995	Greens-Coccoid Unidentified	92	Diatoms-Pennate Unidentified	74	Ankistrodesmus	55	1,307
6-9-70	Cyclo-Steph	72	Coelastrum	58	Flagellates-Green Unidentified	43	Diatoms-Pennate Unidentified	29	272
7-6-70	Oocystis	22	Aphanizomenon	22	Phacotus	22	Cyclo-Steph	11	165
9-2-70	Anacystis	102	Oocystis	65	Cyclo-Steph	28	Phacotus	28	331
12-15-70	Cyclo-Steph	370	Diatoms-Pennate Unidentified	46	Melosira	37	Pediastrum	18	633

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Cleveland Division - C2103

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-6-70	Cyclo-Steph	662	Dactylococcus	72	Diatoms-Pennate Unidentified	43	Melosira	14	805
1-27-70	Cyclo-Steph	670	Greens-Coccoid Unidentified	43	Glenodinium	22			735
2-2-70	Cyclo-Steph	1,492	Ankistrodesmus	111	Peridinium	37	Melosira	18	1,676
2-16-70	Cyclo-Steph	901	Diatoms-Pennate Unidentified	129	Melosira	64	Peridinium	43	1,158
4-20-70	Diatoms-Pennate Unidentified	296	Tribonema	37	Oedogonium	28	Oocystis	9	406
6-9-70	Cyclo-Steph	22	Pediastrum	11	Scenedesmus	11	Phacus	11	66
8-5-70	Aphanizomenon	120	Oocystis	28	Cosmarium	18	Sphaerocystis	18	220
8-31-70	Anacystis	74	Oocystis	28	Mougeotia	28	Anabaena	18	256
11-18-70	Cyclo-Steph	277	Diatoms-Pennate Unidentified	65	Melosira	37	Pediastrum	18	451

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Cleveland-Baldwin - C2104

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-6-70	Cyclo-Steph	691	Dactylococcus	86	Tetrastrum	65	Coelastrum	43	1,059
1-27-70	Cyclo-Steph	821	Diatoms-Pennate Unidentified	65	Lagerheimia	43	Dactylococcus	43	1,038
2-2-70	Cyclo-Steph	737	Ankistrodesmus	166	Franceia	55	Greens-Coccoid Unidentified	37	1,031
2-16-70	Cyclo-Steph	2.790	Lagerheimia	129	Diatoms-Pennate Unidentified	86	Tetrastrum	86	3,263
6-9-70	Cyclo-Steph	33	Oocystis	22	Staurastrum	22	Greens-Coccoid Unidentified	22	132
7-6-70	Cyclo-Steph	37	Diatoms-Pennate Unidentified	37	Oedogonium	18	Oocystis	9	137
8-5-70	Aphanizomenon	304	Anacystis	28	Cyclo-Steph	18	Sphaerocystis	18	404
8-31-70	Oocystis	55	Anacystis	46	Diatoms-Pennate Unidentified	37	Phacotus	28	229
11-15-70	Cyclo-Steph	253	Diatoms-Pennate Unidentified	89	Melosira	89	Staurastrum	45	626

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Cleveland-Nottingham - D2301

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-6-70	Cyclo-Steph	147	Peridinium	25	Scenedesmus	12	Tetrastrum	12	256
1-27-70	Cyclo-Steph	282	Ankistrodesmus	86	Diatoms-Pennate Unidentified	25	Peridinium	25	491
2-2-70	Cyclo-Steph	1.437	Ankistrodesmus	111	Tetrastrum	37	Diatoms-Pennate Unidentified	18	1,639
2-16-70	Cyclo-Steph	3.949	Tetrastrum	86	Melosira	43	Ankistrodesmus	43	4,121
6-9-70	Oocystis	22	Cyclo-Steph	22	Coelastrum	11	Greens-Filamentous Unidentified	0	55
7-7-70	Diatoms-Pennate Unidentified	54	Tribonema	54	Cyclo-Steph	22	Oocystis	22	185
8-4-70	Oocystis	46	Aphanizomenon	18	Melosira	9	Coelastrum	9	118
8-31-70	Diatoms-Pennate Unidentified	43	Oocystis	33	Sphaerocystis	33	Staurastrum	22	197
10-1-70	Cyclo-Steph	139	Pediastrum	18	Anacystis	18	Cosmarium	9	211
12-15-70	Cyclo-Steph	407	Diatoms-Pennate Unidentified	296	Staurastrum	37	Melosira	25	971

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Cleveland Electric Illuminating - E2501
(Eastlake)

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-70	Cyclo-Steph	101	Ankistrodesmus	64	Tetrastrum	37	Diatoms-Pennate Unidentified	28	266
2-4-70	Cyclo-Steph	1,087	Ankistrodesmus	92	Greens-Coccoid Unidentified	55	Closteriopsis	37	1,362
2-16-70	Cyclo-Steph	1,783	Melosira	43	Ankistrodesmus	43	Flagellates-Green Unidentified	43	1,999
6-9-70	Cyclo-Steph	58	Coelastrum	58	Oocystis	58	Diatoms-Pennate Unidentified	43	301
7-1-70	Cyclo-Steph	903	Ankistrodesmus	129	Green-Coccoid Unidentified	74	Peridinium	55	1,197
7-7-70	Cyclo-Steph	196	Oocystis	87	Coelastrum	43	Ceratium	43	566
8-4-70	Aphanizomenon	536	Cyclo-Steph	148	Oocystis	74	Phacus	55	1,087
9-1-70	Phacotus	130	Cyclo-Steph	101	Coelastrum	29	Pediastrum	29	532
12-16-70	Cyclo-Steph	102	Melosira	18	Closteriopsis	18	Flagellates-Brown Unidentified	18	228

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Mentor - E2601

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-70	Cyclo-Steph	86	Ankistrodesmus	37	Peridinium	25	Franceia	12	232
1-28-70	Cyclo-Steph	583	Dactylococcus	108	Greens-Coccoid Unidentified	43	Ankistrodesmus	22	800
2-4-70	Cyclo-Steph	534	Diatoms-Pennate Unidentified	350	Ankistrodesmus	129	Staurastrum	111	1,234
2-18-70	Cyclo-Steph	1,695	Diatoms-Pennate Unidentified	147	Ankistrodesmus	111	Greens-Coccoid Unidentified	37	2,008
7-7-70	Oocystis	43	Cyclo-Steph	22	Diatoms-Pennate Unidentified	22	Pediastrum	11	142
8-4-70	Anacystis	139	Diatoms-Pennate Unidentified	46	Cyclo-Steph	37	Aphanizomenon	18	267
9-1-70	Phacotus	213	Diatoms-Pennate Unidentified	65	Oocystis	65	Cyclo-Steph	55	573
10-1-70	Cyclo-Steph	120	Phacotus	54	Staurastrum	33	Coelastrum	22	350
12-16-70	Cyclo-Steph	120	Diatoms-Pennate Unidentified	43	Scenedesmus	33	Melosira	22	240

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Palmesville - F2718

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-70	Cyclo-Steph	193	Peridinium	55	Ankistrodesmus	28	Diatoms-Pennate Unidentified	18	312
1-29-70	Cyclo-Steph	663	Ankistrodesmus	55	Peridinium	55	Glenodinium	18	864
2-4-70	Cyclo-Steph	140	Dactylococcus	130	Melosira	22	Tetrastrum	22	358
2-18-70	Cyclo-Steph	7,810	Greens-Coccoid Unidentified	147	Ankistrodesmus	74	Flagellates-Green Unidentified	74	8,105
6-9-70	Cyclo-Steph	46	Oocystis	28	Sphaerocystis	18	Tribonema	18	128
7-7-70	Cyclo-Steph	111	Oocystis	65	Diatoms-Pennate Unidentified	18	Pediastrum	18	275
8-4-70	Aphanizomenon	776	Cyclo-Steph	74	Cosmarium	37	Pediastrum	37	1,272
9-1-70	Phacotus	74	Scenedesmus	37	Anacystis	37	Cyclo-Steph	28	249
10-1-70	Cyclo-Steph	33	Oocystis	33	Anacystis	33	Phacus	33	253
12-16-70	Cyclo-Steph	157	Diatoms-Pennate Unidentified	28	Oocystis	18	Pediastrum	9	221

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Madison - G3001

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-70	Cyclo-Steph	490	Dactylococcus	72	Scenedesmus	43	Tetrastrum	29	663
1-28-70	Cyclo-Steph	490	Diatoms-Pennate Unidentified	29	Lagerheimia	14	Schroederia	14	589
2-4-70	Cyclo-Steph	3,456	Dactylococcus	130	Diatoms-Pennate Unidentified	86	Staurastrum	43	3,801
2-18-70	Cyclo-Steph	10,886	Dactylococcus	86	Phacus	86	Peridinium	43	11,144
6-9-70	Cyclo-Steph	33	Diatoms-Pennate Unidentified	22	Coelastrum	22	Tribonema	22	110
7-7-70	Cyclo-Steph	83	Oocystis	55	Staurastrum	18	Melosira	9	219
8-4-70	Aphanizomenon	2,495	Anabaena	222	Diatoms-Pennate Unidentified	55	Micractinium	37	2,936
9-1-70	Oocystis	54	Staurastrum	43	Sphaerocystis	33	Coelastrum	22	196
10-1-70	Staurastrum	46	Diatoms-Pennate Unidentified	37	Cyclo-Steph	28	Pediastrum	18	201
12-16-70	Cyclo-Steph	109	Melosira	22	Diatoms-Pennate Unidentified	22	Ankistrodesmus	11	175

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Ashtabula - G3303

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-28-70	Cyclo-Steph	1,080							1,080
2-4-70	Cyclo-Steph	677	Dactylococcus	29					706
2-18-70	Cyclo-Steph	1,642	Peridinium	86	Dactylococcus	43	Flagellates-Green Unidentified	43	1,857
6-9-70	Planktosphaeria	9	Selenastrum	9	Greens-Coccoid Unidentified	9	Tribonema	9	36
7-7-70	Cyclo-Steph	46	Oocystis	18	Staurastrum	18	Phacotus	18	163
8-4-70	Aphanizomenon	345	Anabaena	74	Diatoms-Pennate Unidentified	49	Cyclo-Steph	25	504
9-1-70	Staurastrum	54	Oocystis	43	Cyclo-Steph	33	Pediastrum	33	328
10-1-70	Diatoms-Pennate Unidentified	46	Cyclo-Steph	37	Cosmarium	18	Oocystis	18	236
12-16-70	Cyclo-Steph	109	Melosira	22	Oocystis	22	Pediastrum	22	219

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Conneaut - H3605

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-7-70	Cyclo-Steph	286	Melosira	28	Ankistrodesmus	28	Scenedesmus	28	415
1-27-70	Cyclo-Steph	2,333	Ankistrodesmus	43					2,376
2-3-70	Cyclo-Steph	2,358	Ankistrodesmus	37	Franceia	37	Scenedesmus	37	2,580
2-17-70	Cyclo-Steph	2,203	Diatoms-Centric Unidentified	173	Dactylococcus	130	Lagerheimia	43	2,592
6-9-70	Diatoms-Pennate Unidentified	22	Coelastrum	22	Cyclo-Steph	11	Staurastrum	11	66
7-7-70	Cyclo-Steph	37	Oocystis	37	Ceratium	28	Pediastrum	9	138
8-4-70	Aphanizomenon	1,137	Anabaena	114	Cyclo-Steph	91	Diatoms-Pennate Unidentified	91	1,797
9-1-70	Phacotus	139	Anacystis	55	Staurastrum	46	Cyclo-Steph	37	497
10-1-70	Diatoms-Pennate Unidentified	65	Cyclo-Steph	28	Oocystis	28	Anacystis	28	249
12-16-70	Cyclo-Steph	74	Diatoms-Pennate Unidentified	37	Phacotus	9	Dinobryon	9	138

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Water Treatment Plant-Erie - J4108

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-6-70	Cyclo-Steph	331	Diatoms-Pennate Unidentified	101	Oocystis	29	Scenedesmus	29	575
1-27-70	Cyclo-Steph	212	Ankistrodesmus	37	Flagellates-Green Unidentified	18	Phacus	9	285
2-3-70	Cyclo-Steph	1,469	Dactylococcus	86	Greens-Coccoid Unidentified	43	Tetrastrum	22	1,620
2-17-70	Cyclo-Steph	3,389	Ankistrodesmus	74	Greens-Coccoid Unidentified	74	Melosira	37	3,611
5-26-70	Tetrastrum	28	Trachelomonas	28	Cyclo-Steph	18	Closteriopsis	18	146
6-9-70	Tribonema	11	Greens-Flagellates Unidentified	11					22
6-23-70	Scenedesmus	22	Staurastrum	22	Tribonema	22	Cyclo-Steph	11	110
7-7-70	Tribonema	166	Diatoms-Pennate Unidentified	139	Oocystis	102	Cyclo-Steph	83	672
7-21-70	Tribonema	304	Cyclo-Steph	239	Oedogonium	196	Staurastrum	109	1,023
8-6-70	Oocystis	18	Pediastrum	18	Anacystis	18	Coelastrum	9	90
8-25-70	Aphanizomenon	120	Anacystis	83	Oocystis	74	Phacotus	55	569
9-1-70	Oocystis	37	Staurastrum	37	Anacystis	37	Anabaena	37	276
9-16-70	Diatoms-Pennate Unidentified	83	Pediastrum	28	Sphaerocystis	28	Pediastrum	28	238
9-30-70	Diatoms-Pennate Unidentified	111	Phacotus	37	Oedogonium	18	Pediastrum	9	163
12-15-70	Diatoms-Pennate Unidentified	628	Cyclo-Steph	554	Melosira	111	Staurastrum	111	1,568

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Water Treatment Plant-Dunkirk - N5001

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-6-70	Cyclo-Steph	396	Ankistrodesmus	129	Pennate	37	Scenedesmus	18	634
1-27-70	Cyclo-Steph	313	Greens-Coccoid Unidentified	54	Dactylococcus	54	Dinobryon	11	432
2-3-70	Cyclo-Steph	619	Dactylococcus	43					662
2-17-70	Cyclo-Steph	230	Ankistrodesmus	37	Scenedesmus	9	Staurastrum	9	294
5-26-70	Cyclo-Steph	22	Melosira	11	Diatoms-Pennate Unidentified	11	Ankistrodesmus	11	55
6-9-70	Cyclo-Steph	54	Tribonema	54	Diatoms-Pennate Unidentified	22	Dinobryon	22	174
6-23-70	Cosmarium	9	Oocystis	9	Oedogonium	9			27
7-7-70	Tribonema	54	Oocystis	32	Pediastrum	32	Gleocystis	32	205
7-21-70	Diatoms-Pennate Unidentified	65	Oedogonium	65	Scenedesmus	37	Oocystis	28	296
8-6-70	Oocystis	55	Cosmarium	9	Anacystis	9	Flagellates-Green Unidentified	9	109
8-25-70	Anacystis	102	Oocystis	83	Sphaerocystis	65	Cyclo-Steph	46	314
9-1-70	Oocystis	76	Anacystis	32	Cyclo-Steph	22	Pediastrum	22	262
9-16-70	Oocystis	43	Cosmarium	11	Pediastrum	11	Phacotus	11	120
9-30-70	Diatoms-Pennate Unidentified	87	Phacotus	87	Coelastrum	29	Pediastrum	29	373
12-15-70	Cyclo-Steph	166	Diatoms-Pennate Unidentified	37	Closteriopsis	18	Scenedesmus	18	329

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Water Treatment Plant-Sturgeon Point - 05401

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-6-70	Cyclo-Steph	939	Diatoms-Pennate Unidentified	74	Oocystis	37	Pediastrum	18	1,104
1-27-70	Cyclo-Steph	46	Greens-Coccoid Unidentified	18	Phacus	18	Flagellates-Green Unidentified	18	100
2-3-70	Cyclo-Steph	157	Ankistrodesmus	18	Greens-Coccoid Unidentified	27	Phacus	9	193
2-17-70	Cyclo-Steph	46	Staurastrum	9	Coccoid-Green Unidentified	9	Phacus	9	73
3-26-70	Diatoms-Pennate Unidentified	37	Mougeotia	28	Cyclo-Steph	18	Aphanizomenon	18	119
6-9-70	Cyclo-Steph	22	Oocystis	22	Glenodinium	22	Tribonema	11	99
6-23-70	Scenedesmus	11	Anabaena	11	Phacus	11			33
7-7-70	Oocystis	28	Diatoms-Pennate Unidentified	18	Scenedesmus	18	Oedogonium	9	109
7-21-70	Oedogonium	111	Diatoms-Pennate Unidentified	102	Anabaena	37	Cyclo-Steph	28	433
8-6-70	Oocystis	55	Anacystis	37	Aphanizomenon	37	Oedogonium	18	201
8-25-70	Anabaena	129	Anacystis	102	Oocystis	92	Cosmarium	18	368
9-1-70	Anacystis	65	Diatoms-Pennate Unidentified	37	Sphaerocystis	37	Oocystis	18	220
9-16-70	Cyclo-Steph	18	Dictyosphaerium	18	Ceratium	18	Oocystis	9	90
9-30-70	Diatoms-Pennate Unidentified	83	Oocystis	18	Cyclo-Steph	9	Staurastrum	9	137
12-15-70	Cyclo-Steph	109	Scenedesmus	33	Diatoms-Pennate Unidentified	22	Coelastrum	11	197

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Water Treatment Plant-Woodlawn - R5601

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-6-70	Cyclo-Steph	518	Diatoms-Pennate Unidentified	29	Coelastrum	14			561
1-27-70	Cyclo-Steph	119	Dactylococcus	32					151
2-3-70	Cyclo-Steph	173	Dactylococcus	54	Tetrastrum	11	Peridinium	11	271
2-17-70	Cyclo-Steph	55	Ankistrodesmus	28	Trachelomonas	9	Glenodinium	9	101
5-26-70	Cyclo-Steph	29	Oedogonium	29	Oocystis	14	Scenedesmus	14	128
6-9-70	Trachelomonas	22	Cyclo-Steph	11	Coelastrum	11	Tribonema	11	66
6-23-70	Melosira	22	Cyclo-Steph	11	Oocystis	11	Pediastrum	11	66
7-7-70	Anacystis	83	Oocystis	28	Pediastrum	18	Greens-Coccoid Unidentified	18	165
7-21-70	Diatoms-Pennate Unidentified	283	Tribonema	160	Oocystis	111	Cyclo-Stepn	49	763
8-5-70	Aphanizomenon	1,318	Oocystis	74	Oedogonium	62	Cyclo-Steph	25	1,588
8-25-70	Oocystis	111	Cyclo-Steph	83	Anacystis	65	Diatoms-Pennate Unidentified	55	432
9-1-70	Phacotus	9							9
9-16-70	Anacystis	55	Cyclo-Steph	37	Phacotus	28	Trachelomonas	28	220
9-30-70	Oedogonium	33	Ceratium	33	Pediastrum	22	Cyclo-Steph	11	132
12-15-70	Cyclo-Steph	37	Diatoms-Pennate Unidentified	18	Botryococcus	9	Anacystis	9	73

TABLE 8 (Concluded)

DOMINANT PHYTOPLANKTON

Water Treatment Plant-Buffalo - S5631

Date	Most Abundant		2nd Most		3rd Most		4th Most		Total No./Ml.
1-6-70	Cyclo-Steph	194	Dactylococcus	65	Diatoms-Pennate Unidentified	43	Tetrastrum	22	346
1-27-70	Cyclo-Steph	184	Ankistrodesmus	92	phaerocystis	9	Peridinium	9	312
2-3-70	Cyclo-Steph	221	Ankistrodesmus	37	Coccoid-Green Unidentified	13	Closteriopsis	9	285
2-17-70	Dactylococcus	76	Cyclo-Steph	31	Melosira	11	Tetrastrum	11	151
4-21-70	Tribonema	46	Diatoms-Pennate Unidentified	28	Oocystis	23	Cosmarium	9	156
5-26-70	Cyclo-Steph	87	Lagerheimia	33	Flagellates-Green Unidentified	33	Greens-Coccoid Unidentified	22	230
6-9-70	Anacystis	231	Cyclo-Steph	9	Diatoms-Pennate Unidentified	9	Greens Coccoid Unidentified	9	258
6-23-70	Diatoms-Pennate Unidentified	37	Staurastrum	9	Tribonema	9	Phacotus	9	73
7-7-70	Tribonema	37	Greens-Coccoid Unidentified	28	Phacus	28	Oocystis	18	147
8-5-70	Oocystis	18	Anacystis	18	Cosmarium	9	Tribonema	9	72
8-25-70	Oocystis	37	Anacystis	23	Kirchneriella	9	Lagerheimia	9	119
9-1-70	Anabaena	83	Oocystis	65	Sphaerocystis	37	Cyclo-Steph	28	286
9-16-70	Oocystis	28	Oedogonium	28	Pediastrum	18	Cyclo-Steph	9	155
9-30-70	Diatoms-Pennate Unidentified	46	Cyclo-Steph	18	Sphaerocystis	18	Anacystis	18	127
12-15-70	Cyclo-Steph	65	Diatoms-Pennate Unidentified	22	Pediastrum	22	Staurastrum	22	175

*U.S. Government Printing Office: 1971 — 755-035